API Well Number: 43047523730000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL

	1. WELL NAME and NUMBER NBU 1022-1K4BS
2. TYPE OF WORK DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○	**3. FIELD OR WILDCAT** NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO	**5. UNIT or COMMUNITIZATION AGREEMENT NAME** NATURAL BUTTES
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.	**7. OPERATOR PHONE** 720 929-6515
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217	**9. OPERATOR E-MAIL** julie.jacobson@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-010953	**11. MINERAL OWNERSHIP** FEDERAL ● INDIAN ○ STATE ○ FEE ○
	12. SURFACE OWNERSHIP FEDERAL ● INDIAN ○ STATE ○ FEE ○
13. NAME OF SURFACE OWNER (if box 12 = 'fee')	**14. SURFACE OWNER PHONE (if box 12 = 'fee')**
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')	**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS** YES ● (Submit Commingling Application) NO ○
	19. SLANT VERTICAL ○ DIRECTIONAL ● HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1957 FSL 2162 FWL	NESW	1	10.0 S	22.0 E	S
Top of Uppermost Producing Zone	1910 FSL 2135 FWL	NESW	1	10.0 S	22.0 E	S
At Total Depth	1910 FSL 2135 FWL	NESW	1	10.0 S	22.0 E	S

21. COUNTY UINTAH	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 498	**23. NUMBER OF ACRES IN DRILLING UNIT** 160
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 55	**26. PROPOSED DEPTH** MD: 8526 TVD: 8525
27. ELEVATION - GROUND LEVEL 5088	**28. BOND NUMBER** WYB000291	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** 43-8496

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 2190	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 8526	11.6	I-80 LT&C	12.5	Premium Lite High Strength	270	3.38	11.0
							50/50 Poz	1150	1.31	14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

NAME Gina Becker	**TITLE** Regulatory Analyst II	**PHONE** 720 929-6086
SIGNATURE	**DATE** 02/03/2012	**EMAIL** gina.becker@anadarko.com
API NUMBER ASSIGNED 43047523730000	**APPROVAL** Permit Manager	

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Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-1K4BS

Surface: 1957 FSL / 2162 FWL NESW
BHL: 1910 FSL / 2135 FWL NESW

Section 1 T10S R22E

Uintah County, Utah
Mineral Lease: UTU-010953

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1116	
Birds Nest	1377	Water
Mahogany	1740	Water
Wasatch	4150	Gas
Mesaverde	6456	Gas
MVU2	7302	Gas
MVL1	7903	Gas
TVD	8525	
TD	8526	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

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7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8525' TVD, approximately equals 5,456 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,569 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

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Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KM(well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

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on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements
KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

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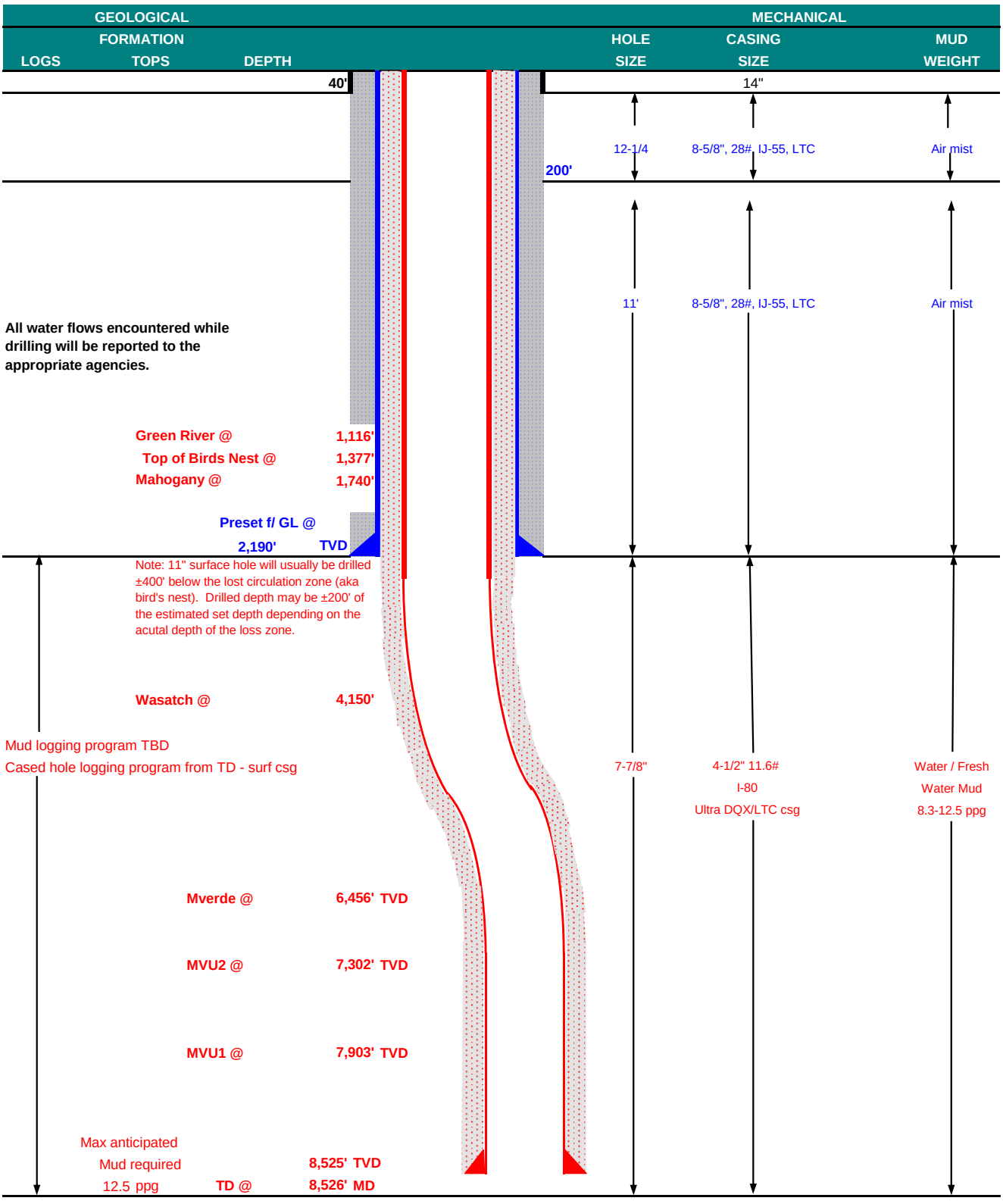
KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	October 5, 2011	
WELL NAME	**NBU 1022-1K4BS**		TD	8,525' TVD	8,526' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	5088.3
SURFACE LOCATION	NESW 1957 FSL	2162 FWL	Sec 1	T 10S	R 22E
	Latitude: 39.976068	Longitude: -109.389958		NAD 83	
BTM HOLE LOCATION	NESW 1910 FSL	2135 FWL	Sec 1	T 10S	R 22E
	Latitude: 39.975939	Longitude: -109.390056		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.				



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC	DQX TENSION
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,190	28.00	IJ-55	LTC	2.47	1.83	6.48	N/A
								7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.15		3.34
	4-1/2"	5,000	to	8,526'	11.60	I-80	LTC	1.11	1.15	6.74	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**					
Option 2	LEAD	1,690'	65/35 Poz + 6% Gel + 10 pps gilsonite	160	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,646'	Premium Lite II +0.25 pps	270	20%	11.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	4,880'	50/50 Poz/G + 10% salt + 2% gel	1,150	35%	14.30		1.31
			+ 0.1% R-3					

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____

Nick Spence / Danny Showers / Chad Loesel

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

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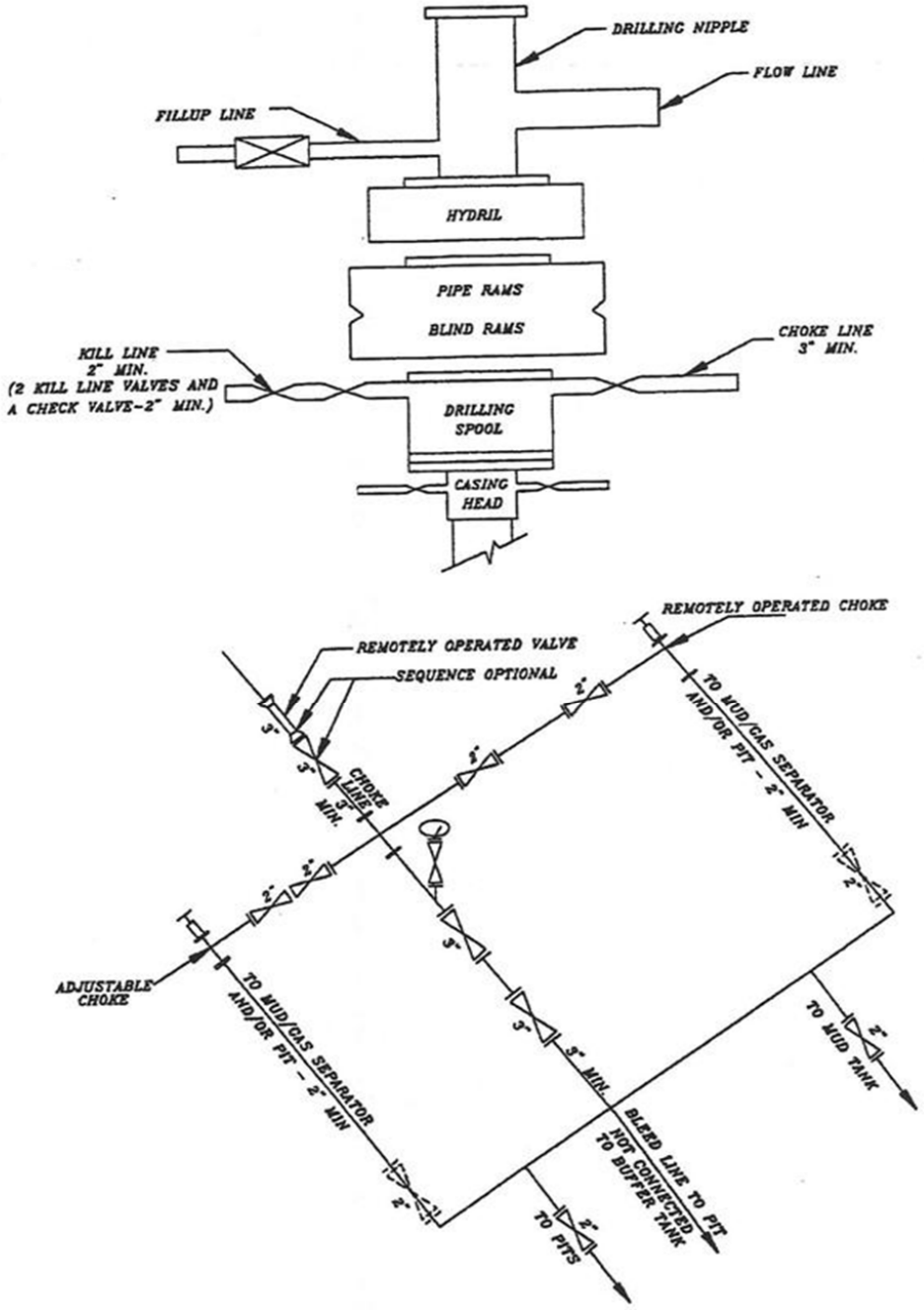
EXHIBIT A
NBU 1022-1K4BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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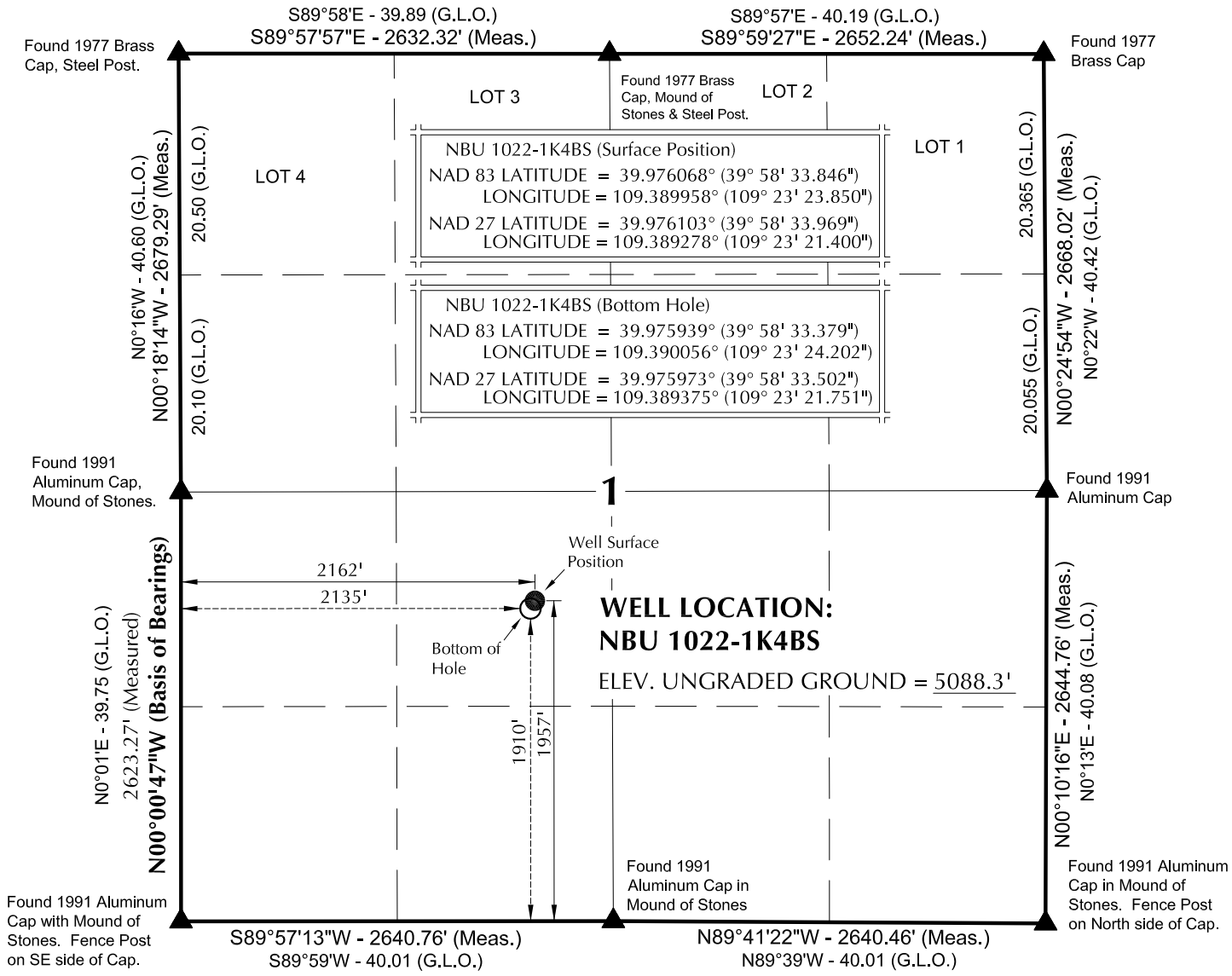
T10S, R22E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears S30°01'20"W 54.59' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

N

1000' 500' 0' 1000'

SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR No.6028691 JOHN R CAUGHLAN STATE OF UTAH

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH 2-21-11

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 1022-1K

NBU 1022-1K4BS
WELL PLAT
1910' FSL, 2135' FWL (Bottom Hole)
NE ¼ SW ¼ OF SECTION 1, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

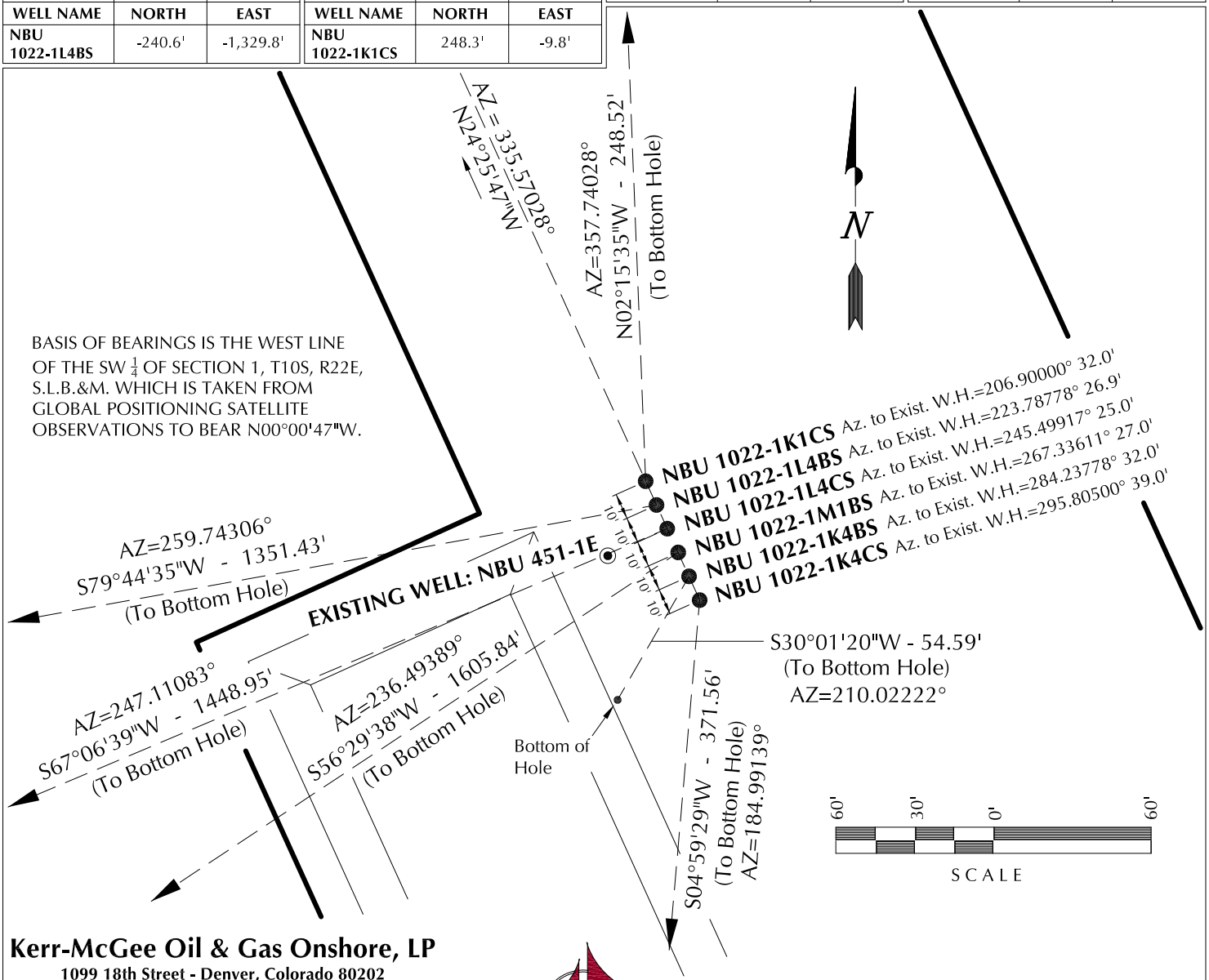
DATE SURVEYED: 02-17-11	SURVEYED BY: R.Y.	SHEET NO: 2
DATE DRAWN: 02-18-11	DRAWN BY: E.M.S.	2 OF 18
SCALE: 1" = 1000'	Date Last Revised:	

RECEIVED: February 02, 2012

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 1022-1K4CS	39°58'33.756" 39.976043°	109°23'23.798" 109.389944°	39°58'33.879" 39.976078°	109°23'21.347" 109.389263°	1948' FSL 2166' FWL	39°58'30.099" 39.975027°	109°23'24.217" 109.390060°	39°58'30.222" 39.975062°	109°23'21.766" 109.389380°	1578' FSL 2134' FWL
NBU 1022-1K4BS	39°58'33.846" 39.976068°	109°23'23.850" 109.389958°	39°58'33.969" 39.976103°	109°23'21.400" 109.389278°	1957' FSL 2162' FWL	39°58'33.379" 39.975939°	109°23'24.202" 109.390056°	39°58'33.502" 39.975973°	109°23'21.751" 109.389375°	1910' FSL 2135' FWL
NBU 1022-1M1BS	39°58'33.936" 39.976093°	109°23'23.903" 109.389973°	39°58'34.059" 39.976128°	109°23'21.453" 109.389292°	1966' FSL 2158' FWL	39°58'25.188" 39.973663°	109°23'41.107" 109.394752°	39°58'25.312" 39.973698°	109°23'38.656" 109.394071°	1081' FSL 819' FWL
NBU 1022-1L4CS	39°58'34.026" 39.976118°	109°23'23.957" 109.389988°	39°58'34.149" 39.976153°	109°23'21.507" 109.389307°	1975' FSL 2154' FWL	39°58'28.468" 39.974575°	109°23'41.105" 109.394751°	39°58'28.592" 39.974609°	109°23'38.654" 109.394070°	1413' FSL 819' FWL
NBU 1022-1L4BS	39°58'34.116" 39.976143°	109°23'24.010" 109.390003°	39°58'34.239" 39.976178°	109°23'21.559" 109.389322°	1985' FSL 2150' FWL	39°58'31.749" 39.975486°	109°23'41.090" 109.394747°	39°58'31.872" 39.975520°	109°23'38.638" 109.394066°	1745' FSL 820' FWL
NBU 1022-1K1CS	39°58'34.206" 39.976168°	109°23'24.063" 109.390017°	39°58'34.329" 39.976202°	109°23'21.612" 109.389337°	1994' FSL 2146' FWL	39°58'36.659" 39.976850°	109°23'24.186" 109.390052°	39°58'36.783" 39.976884°	109°23'21.736" 109.389371°	2242' FSL 2136' FWL
NBU 451-1E	39°58'33.924" 39.976090°	109°23'24.249" 109.390069°	39°58'34.047" 39.976124°	109°23'21.799" 109.389388°	1965' FSL 2131' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 1022-1K4CS	-370.2'	-32.3'	NBU 1022-1K4BS	-47.3'	-27.3'	NBU 1022-1M1BS	-886.5'	-1,339.0'	NBU 1022-1L4CS	-563.6'	-1,334.9'
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST						
NBU 1022-1L4BS	-240.6'	-1,329.8'	NBU 1022-1K1CS	248.3'	-9.8'						



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-1K

WELL PAD INTERFERENCE PLAT

WELLS - NBU 1022-1K4CS, NBU 1022-1K4BS, NBU 1022-1M1BS, NBU 1022-1L4CS, NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

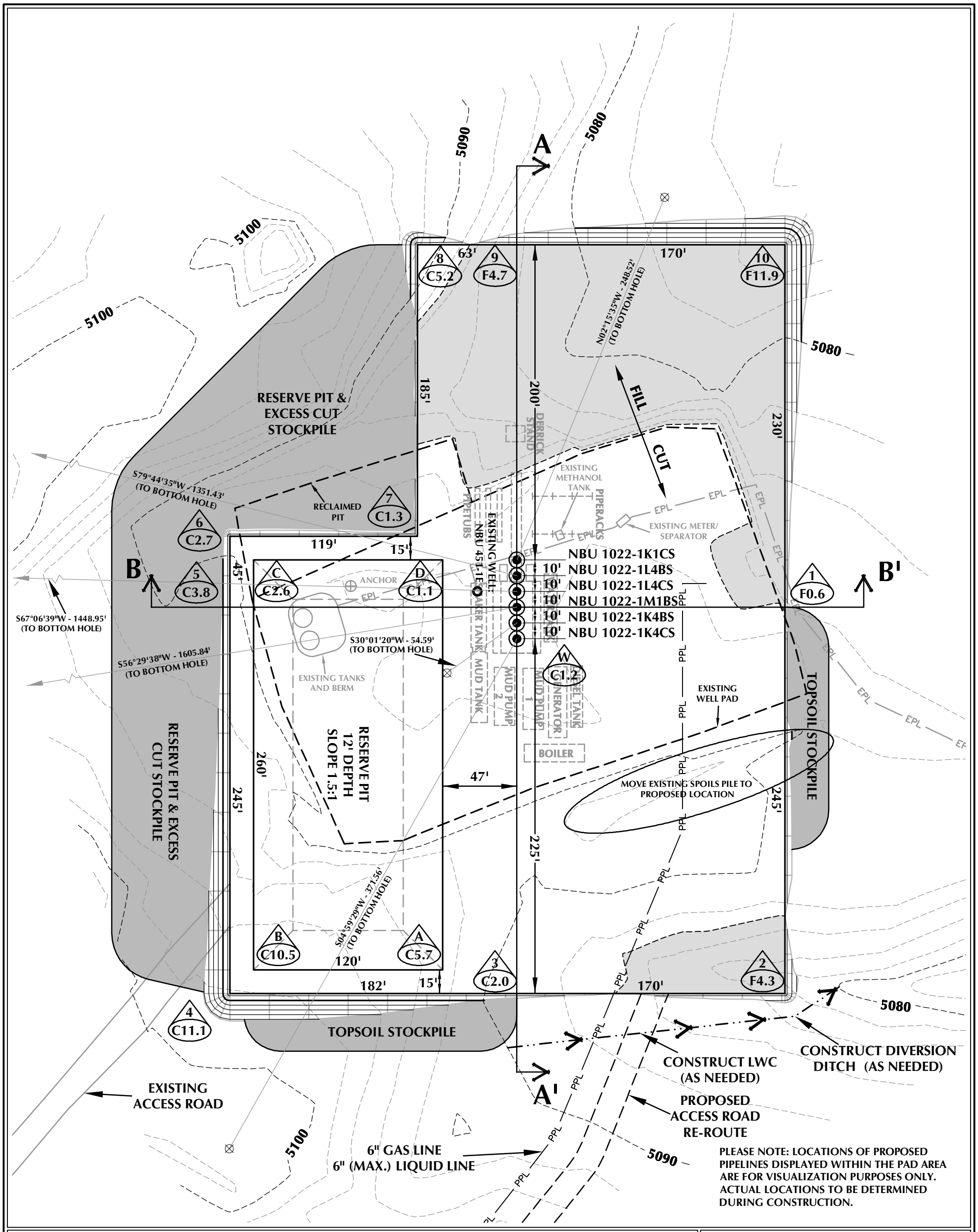
609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 02-17-11	SURVEYED BY: R.Y.	SHEET NO: 7
DATE DRAWN: 02-21-11	DRAWN BY: E.M.S.	7 OF 18
SCALE: 1" = 60'	Date Last Revised:	

RECEIVED: February 02, 2012

API Well Number: 43047523730000



WELL PAD - NBU 1022-1K DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5088.2'
FINISHED GRADE ELEVATION = 5087.0'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.61 ACRES
TOTAL DISTURBANCE AREA = 4.75 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 10,038 C.Y.
TOTAL FILL FOR WELL PAD = 8,631 C.Y.
TOPSOIL @ 6" DEPTH = 1,844 C.Y.
EXCESS MATERIAL = 1,407 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 11,020 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 42,290 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

WELL PAD - NBU 1022-1K

WELL PAD - LOCATION LAYOUT
NBU 1022-1K4CS, NBU 1022-1K4BS,
NBU 1022-1M1BS, NBU 1022-1L4CS,
NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

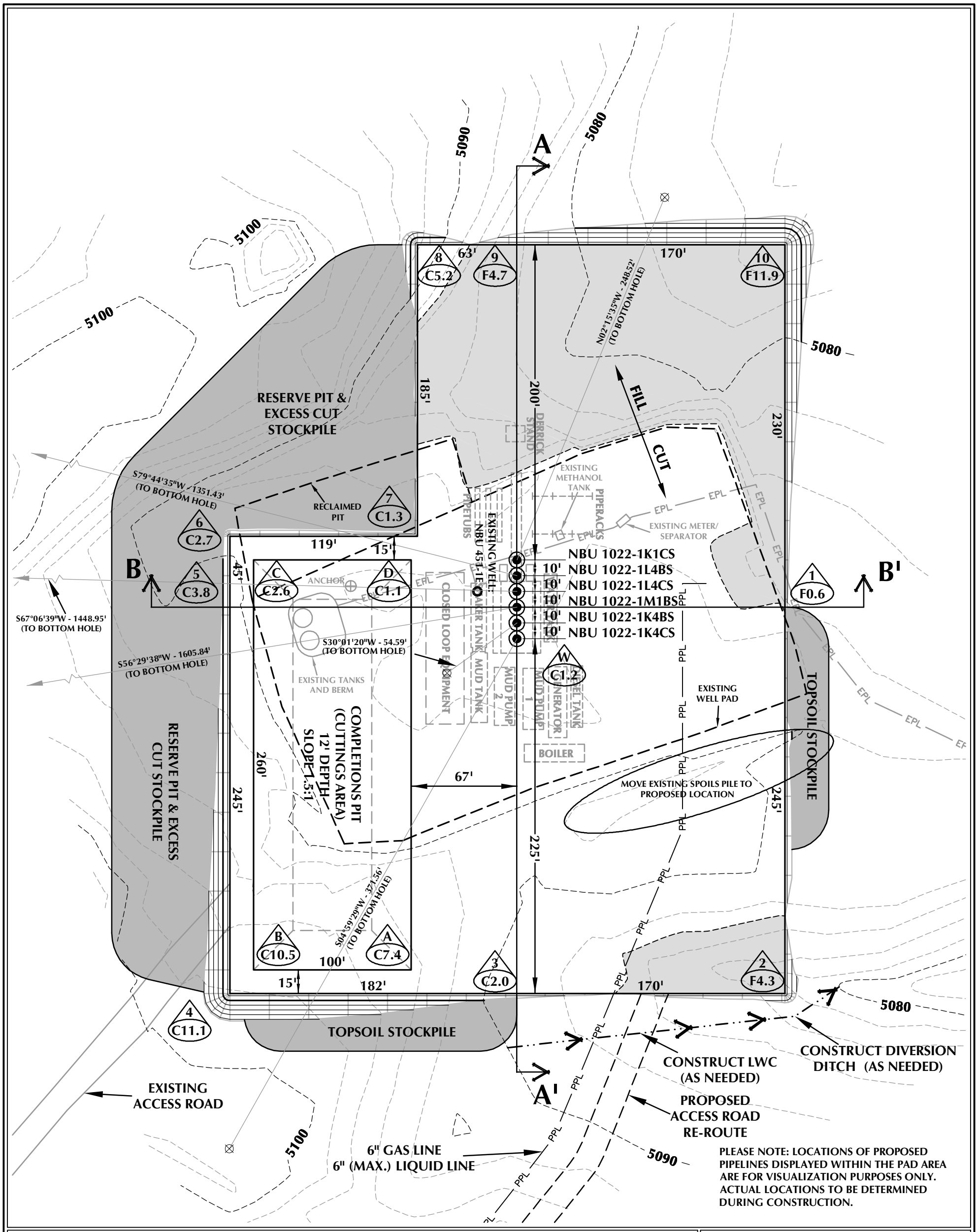
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

SCALE: 1"=60' | DATE: 5/13/11 | SHEET NO: 8 8 OF 18
REVISED: APF 12/8/11

K:\NADARKO\2010\2010_39_NBU_FOCUS_SEC_1-10-22\DWGS\NBU 1022-1K\1022-1K.dwg, 12/21/2011 4:14:39 PM, andy

API Well Number: 43047523730000



WELL PAD - NBU 1022-1K (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5088.2'
FINISHED GRADE ELEVATION = 5087.0'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.61 ACRES
TOTAL DISTURBANCE AREA = 4.75 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 10,038 C.Y.
TOTAL FILL FOR WELL PAD = 8,631 C.Y.
TOPSOIL @ 6" DEPTH = 1,844 C.Y.
EXCESS MATERIAL = 1,407 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT
+/- 8,870 C.Y.
COMPLETIONS PIT CAPACITY
(2' OF FREEBOARD)
+/- 33,770 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

WELL PAD - NBU 1022-1K

WELL PAD - LOCATION LAYOUT
NBU 1022-1K4CS, NBU 1022-1K4BS,
NBU 1022-1M1BS, NBU 1022-1L4CS,
NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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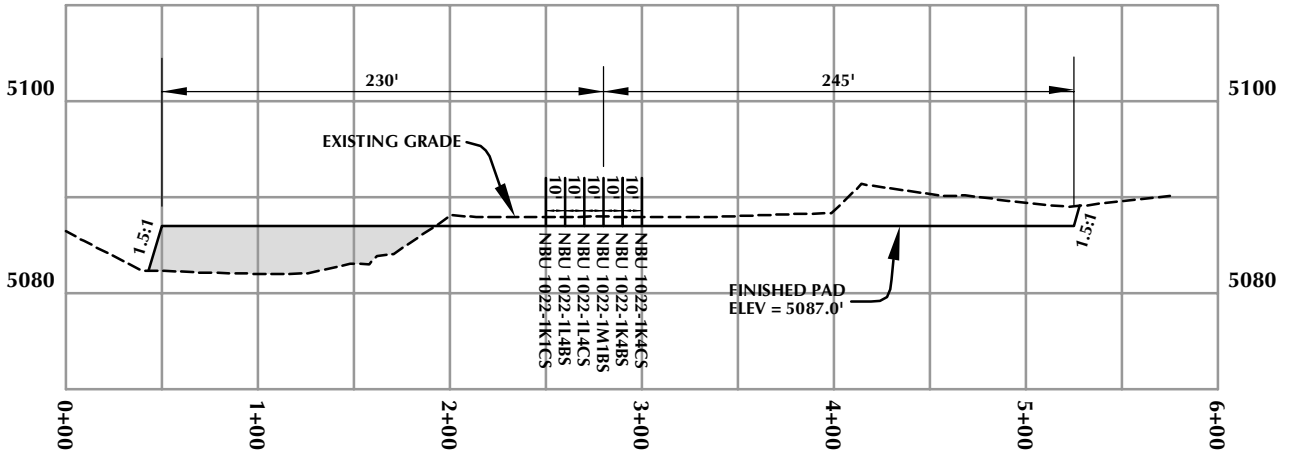
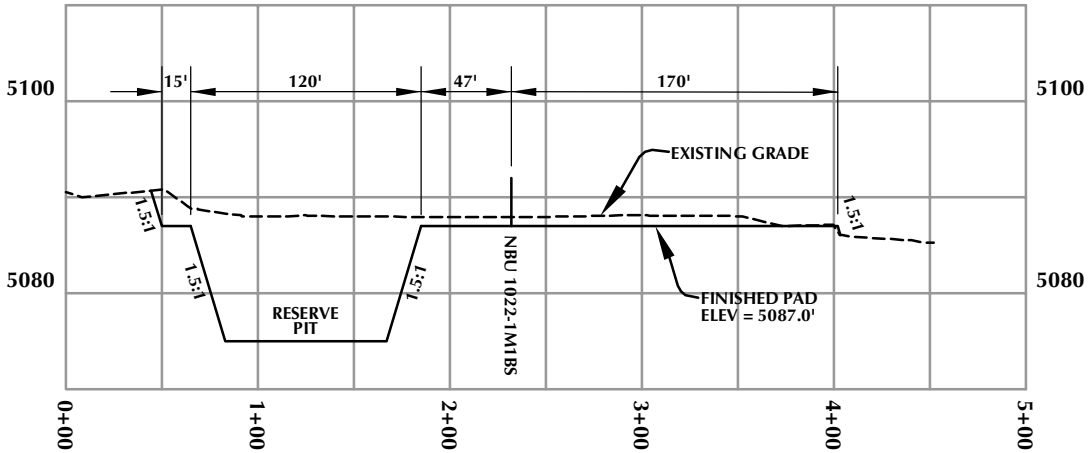
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

SCALE: 1"=60' | DATE: 10/5/11 | SHEET NO: 8B 8B OF 18
REVISED: APF 12/8/11

K:\NADARKO\2010\2010_39_NBU_FOCUS_SEC_1-10-22\DWGS\NBU 1022-1K\1022-1K.dwg, 12/21/2011 4:15:03 PM, andy



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-1K

WELL PAD - CROSS SECTIONS
NBU 1022-1K4CS, NBU 1022-1K4BS, NBU 1022-1M1BS, NBU 1022-1L4CS, NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

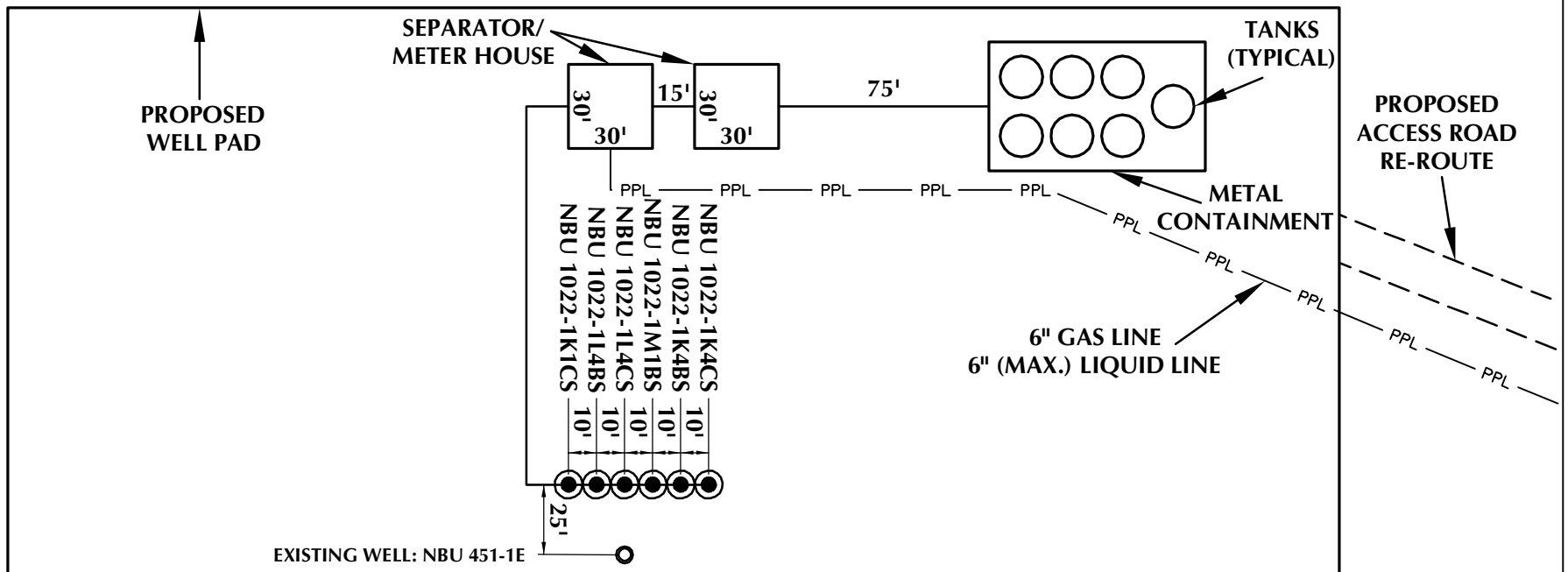
HORIZONTAL 0 50' 100' 1" = 100'
VERTICAL 0 10' 20' 1" = 20'

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=100' | Date: 5/13/11 | SHEET NO: 9 9 OF 18
REVISED:

K:\ANADARKO\2010\2010_39_NBU_FOCUS_SEC_1-1022\DWGS\NBU 1022-1K\1022-1K.dwg, 5/24/2011 8:33:47 AM, tiffany

RECEIVED: February 02, 2012



PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-1K

WELL PAD - FACILITIES DIAGRAM
NBU 1022-1K4CS, NBU 1022-1K4BS, NBU 1022-1M1BS, NBU 1022-1L4CS, NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078
(435) 789-1365

Scale: 1"=60' | Date: 5/13/11 | SHEET NO: 10 10 OF 18
REVISED: APF 12/8/11

K:\ANADARKO\2010\2010_39_NBU_FOCUS_SEC_1-1022\DWGS\NBU 1022-1K\1022-1K.dwg, 12/8/2011 8:57:46 AM, andy

RECEIVED: February 02, 2012

API Well Number: 43047523730000

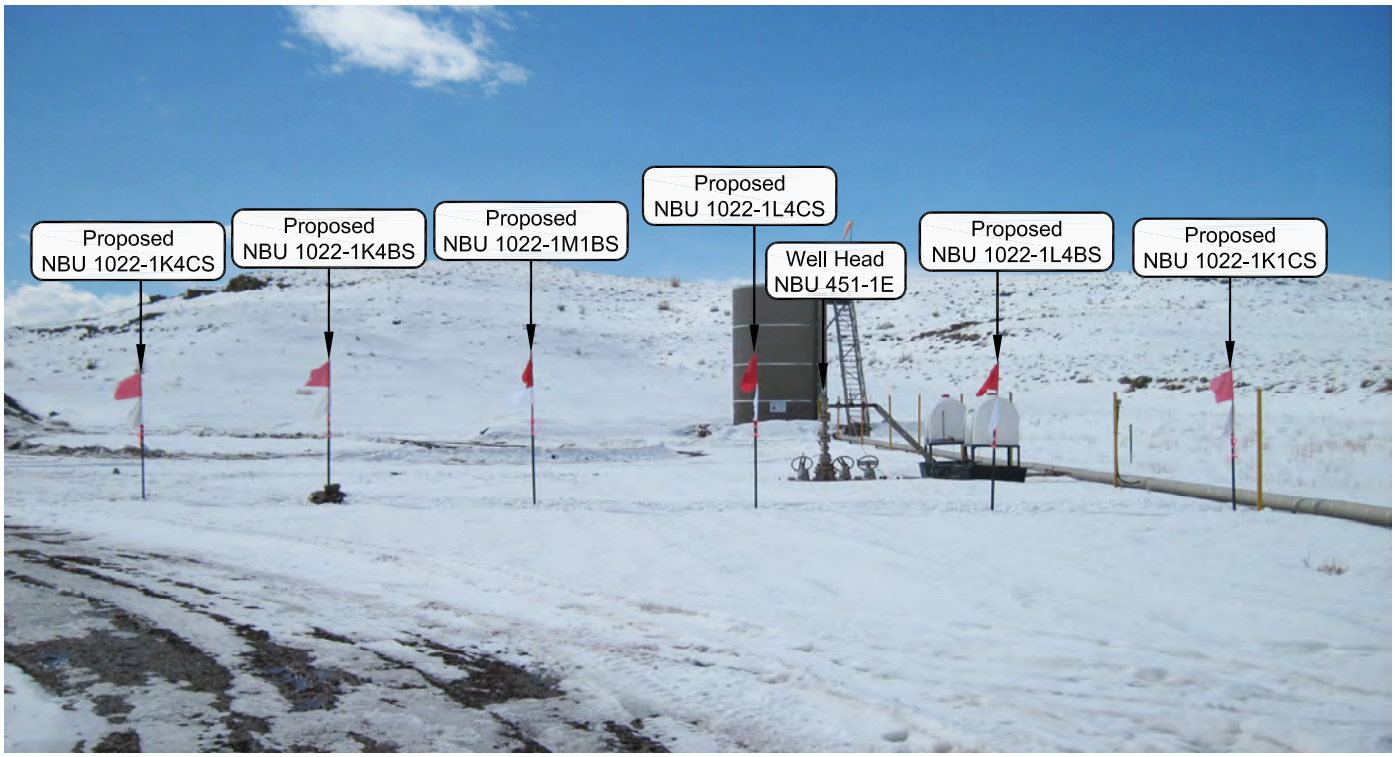


PHOTO VIEW: FROM CORNER #1 TO LOCATION STAKE CAMERA ANGLE: SOUTHWESTERLY

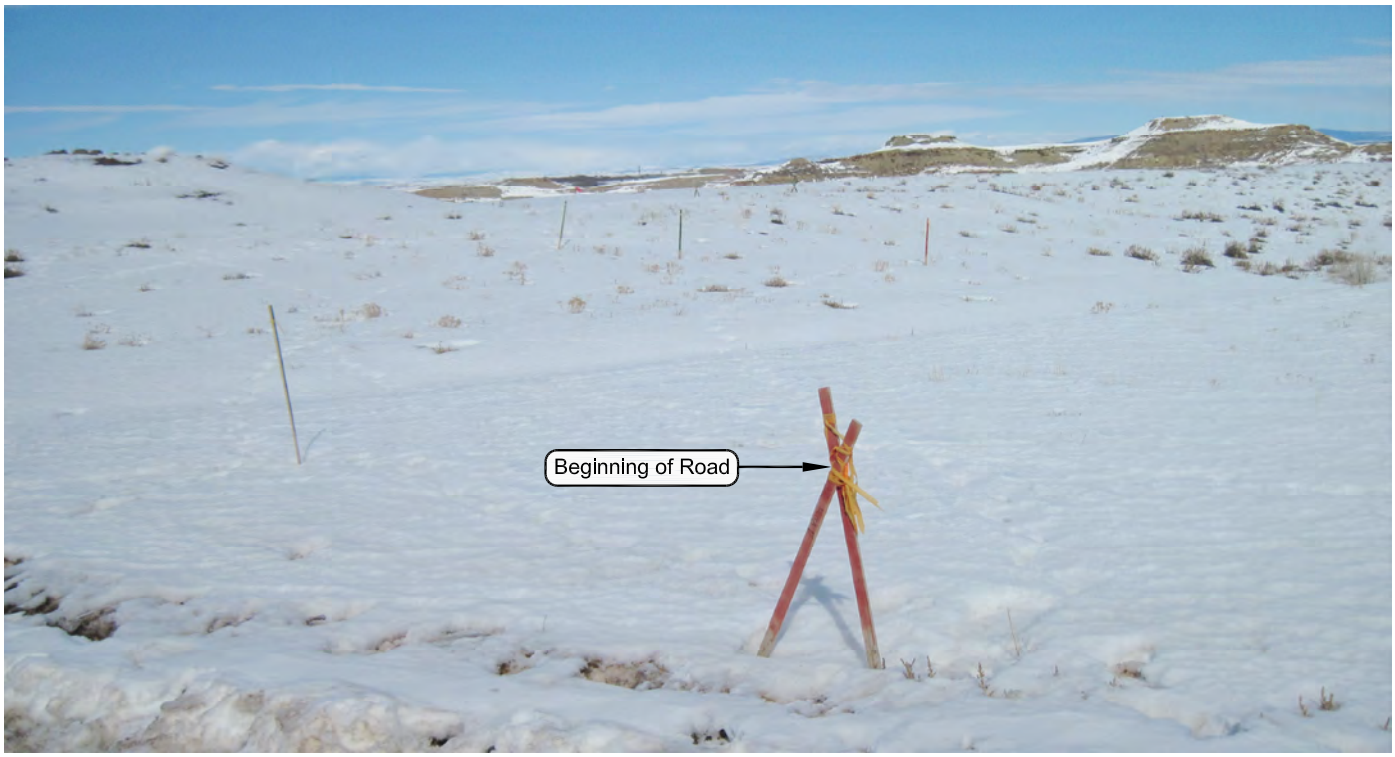


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 1022-1K

LOCATION PHOTOS
NBU 1022-1K4CS, NBU 1022-1K4BS, NBU 1022-1M1BS, NBU 1022-1L4CS, NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

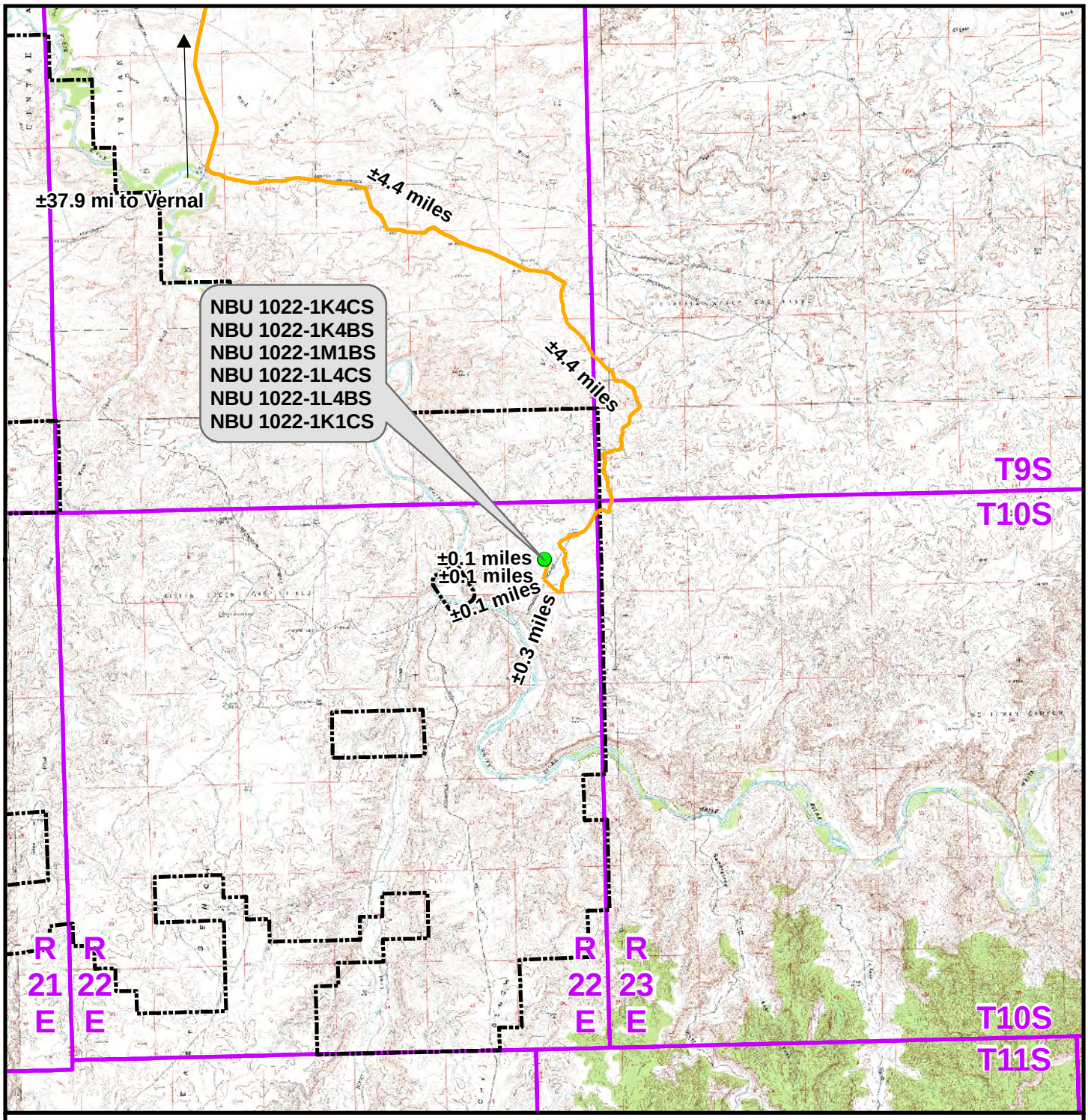
609
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 02-17-11	PHOTOS TAKEN BY: R.Y.	SHEET NO: 11
DATE DRAWN: 02-21-11	DRAWN BY: E.M.S.	11 OF 18
Date Last Revised:		

RECEIVED: February 02, 2012

API Well Number: 43047523730000



Legend

Distance From Well Pad - NBU 1022-1K To Unit Boundary: ±3,120ft

Proposed Well Location

Natural Buttes Unit Boundary

Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-1K

TOPO A

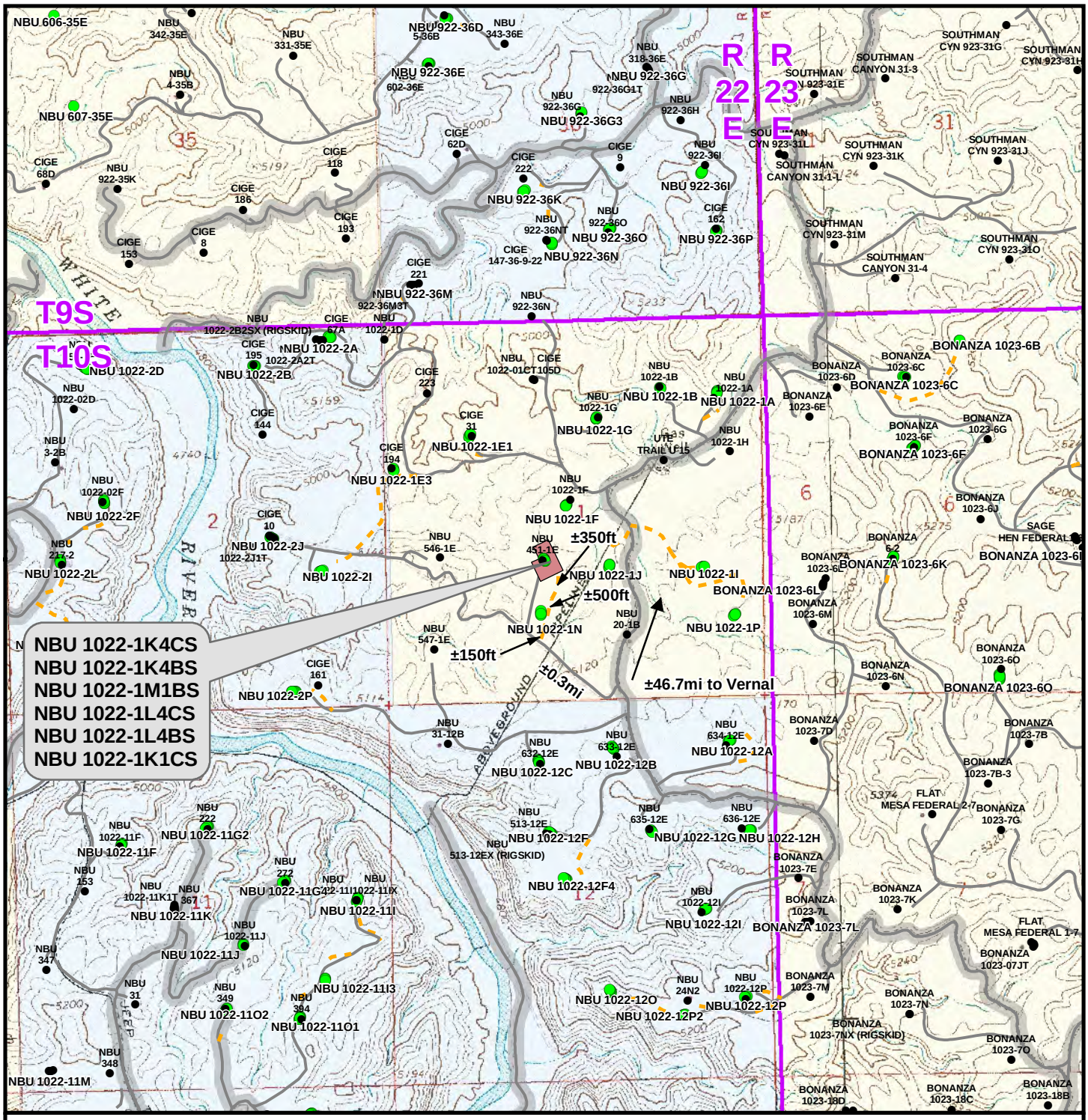
NBU 1022-1K4CS, NBU 1022-1K4BS, NBU 1022-1M1BS, NBU 1022-1L4CS, NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1:100,000	NAD83 USP Central	Sheet No: 12	12 of 18
Drawn: JFE	Date: 13 May 2011		
Revised:	Date:		

RECEIVED: February 02, 2012



Legend

Total Proposed Road Length: ±350ft

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-1K

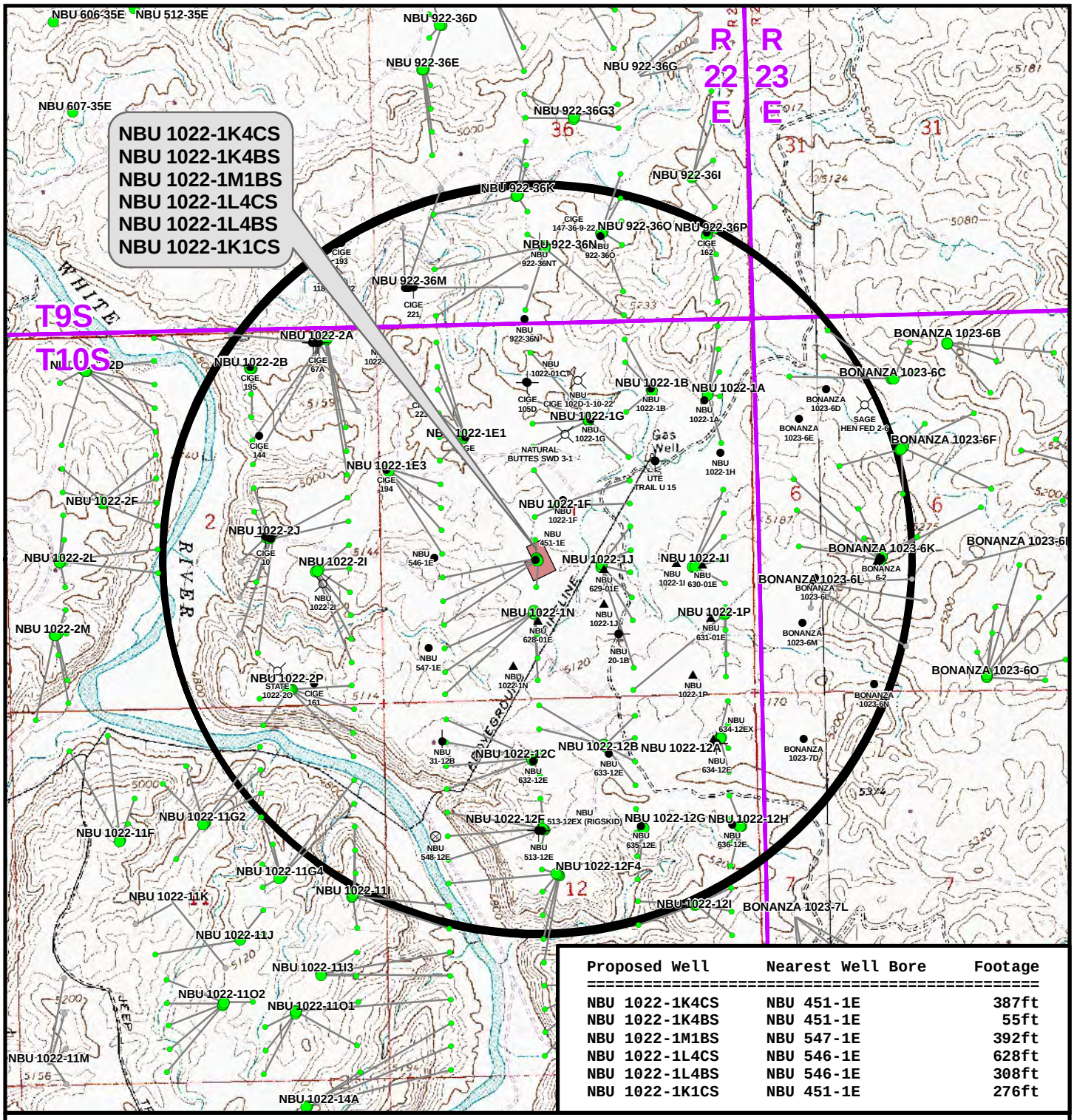
TOPO B
NBU 1022-1K4CS, NBU 1022-1K4BS,
NBU 1022-1M1BS, NBU 1022-1L4CS,
NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 13	13 of 18
Drawn: JFE	Date: 13 May 2011		
Revised:	Date:		

RECEIVED: February 02, 2012



Proposed Well	Nearest Well Bore	Footage
NBU 1022-1K4CS	NBU 451-1E	387ft
NBU 1022-1K4BS	NBU 451-1E	55ft
NBU 1022-1M1BS	NBU 547-1E	392ft
NBU 1022-1L4CS	NBU 546-1E	628ft
NBU 1022-1L4BS	NBU 546-1E	308ft
NBU 1022-1K1CS	NBU 451-1E	276ft

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

Legend

- Well - Proposed
- Well Path
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Pad
- Well - 1 Mile Radius

- Producing
- Active
- Spudded (Drilling commenced: Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-1K

TOPO C
NBU 1022-1K4CS, NBU 1022-1K4BS,
NBU 1022-1M1BS, NBU 1022-1L4CS,
NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
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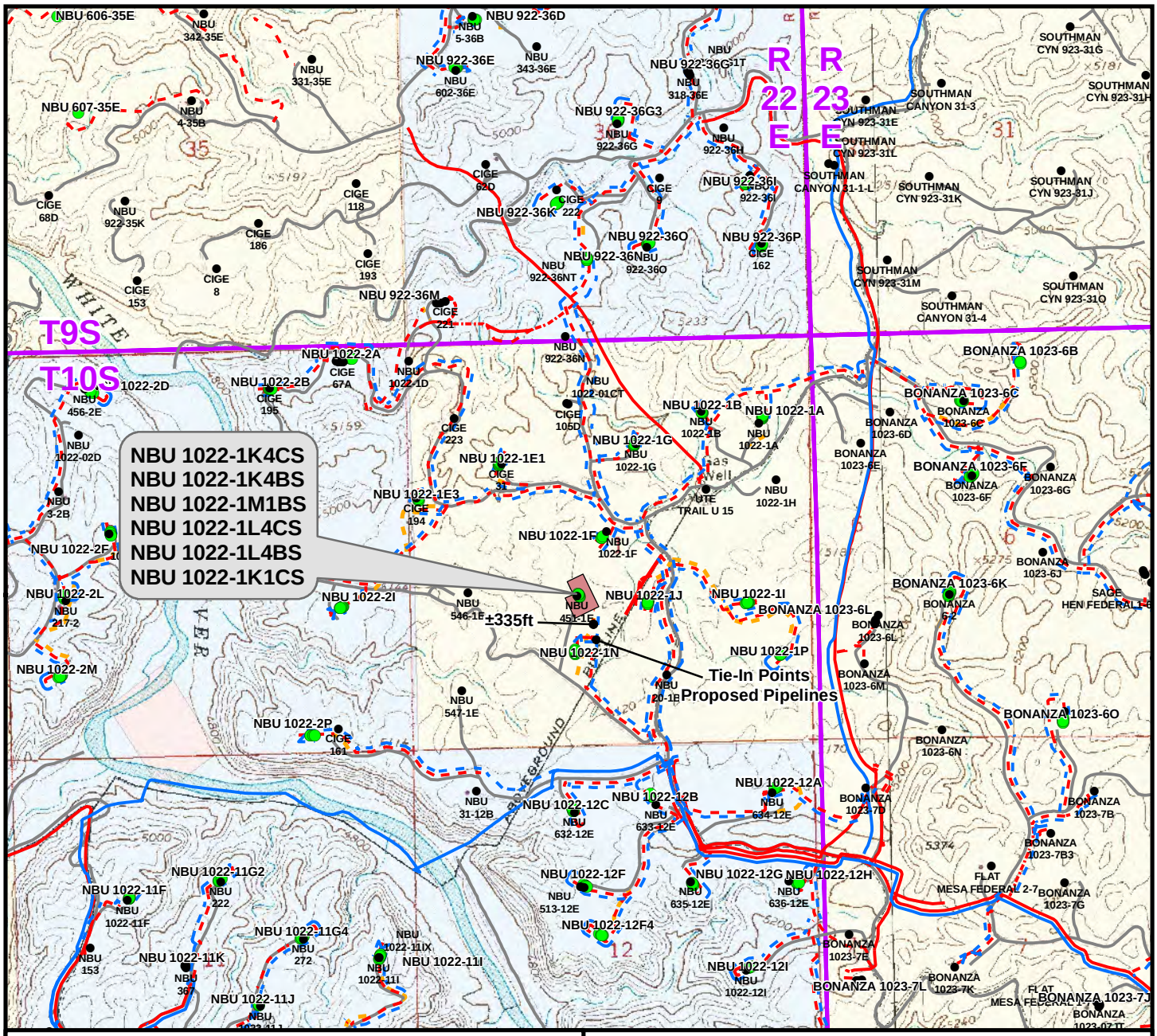
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 14 of 18	
Drawn: JFE	Date: 13 May 2011		
Revised:	Date:		

RECEIVED: February 02, 2012



Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Meter House to Edge of Pad)	±300ft
Buried 6"(Max.) (Edge of Pad to 1N Intersection)	±335ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±635ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±300ft
Buried 6" (Edge of Pad to 1N Intersection)	±335ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±635ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-1K

TOPO D

NBU 1022-1K4CS, NBU 1022-1K4BS, NBU 1022-1M1BS, NBU 1022-1L4CS, NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
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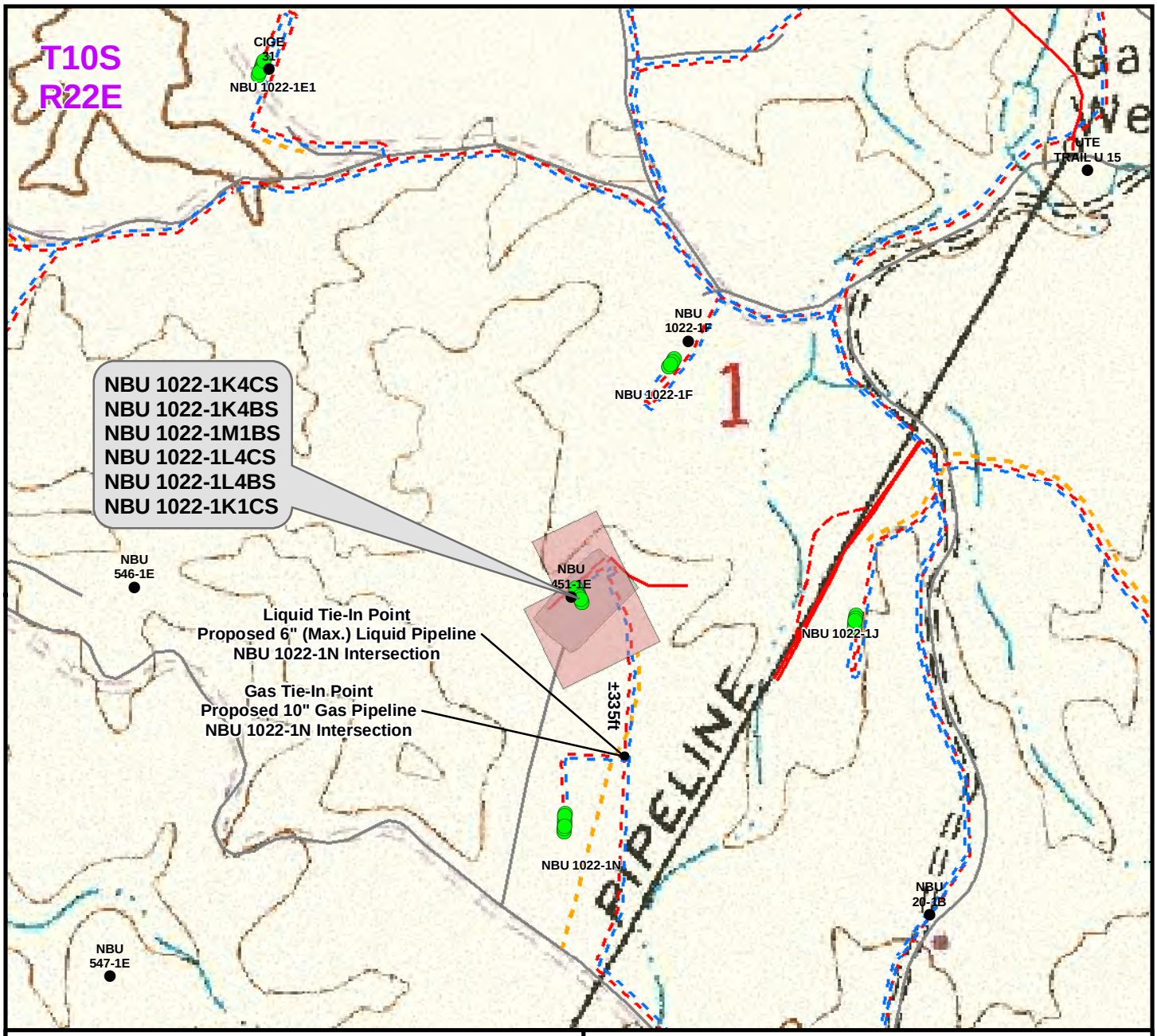
N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 15 of 18
Drawn: JFE	Date: 13 May 2011	
Revised: TL	Date: 8 Dec 2011	

RECEIVED: February 02, 2012



Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Meter House to Edge of Pad)	±300ft
Buried 6"(Max.) (Edge of Pad to 1N Intersection)	±335ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±635ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±300ft
Buried 6" (Edge of Pad to 1N Intersection)	±335ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±635ft

Legend

Well - Proposed; Well - Existing; Well Pad - Proposed; Well Pad - Existing; Gas Pipeline - Proposed; Gas Pipeline - To Be Upgraded; Gas Pipeline - Existing; Liquid Pipeline - Proposed; Liquid Pipeline - Existing; Road - Proposed; Road - Existing; Bureau of Land Management; Indian Reservation; State; Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-1K

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 1022-1K4CS, NBU 1022-1K4BS,
NBU 1022-1M1BS, NBU 1022-1L4CS,
NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

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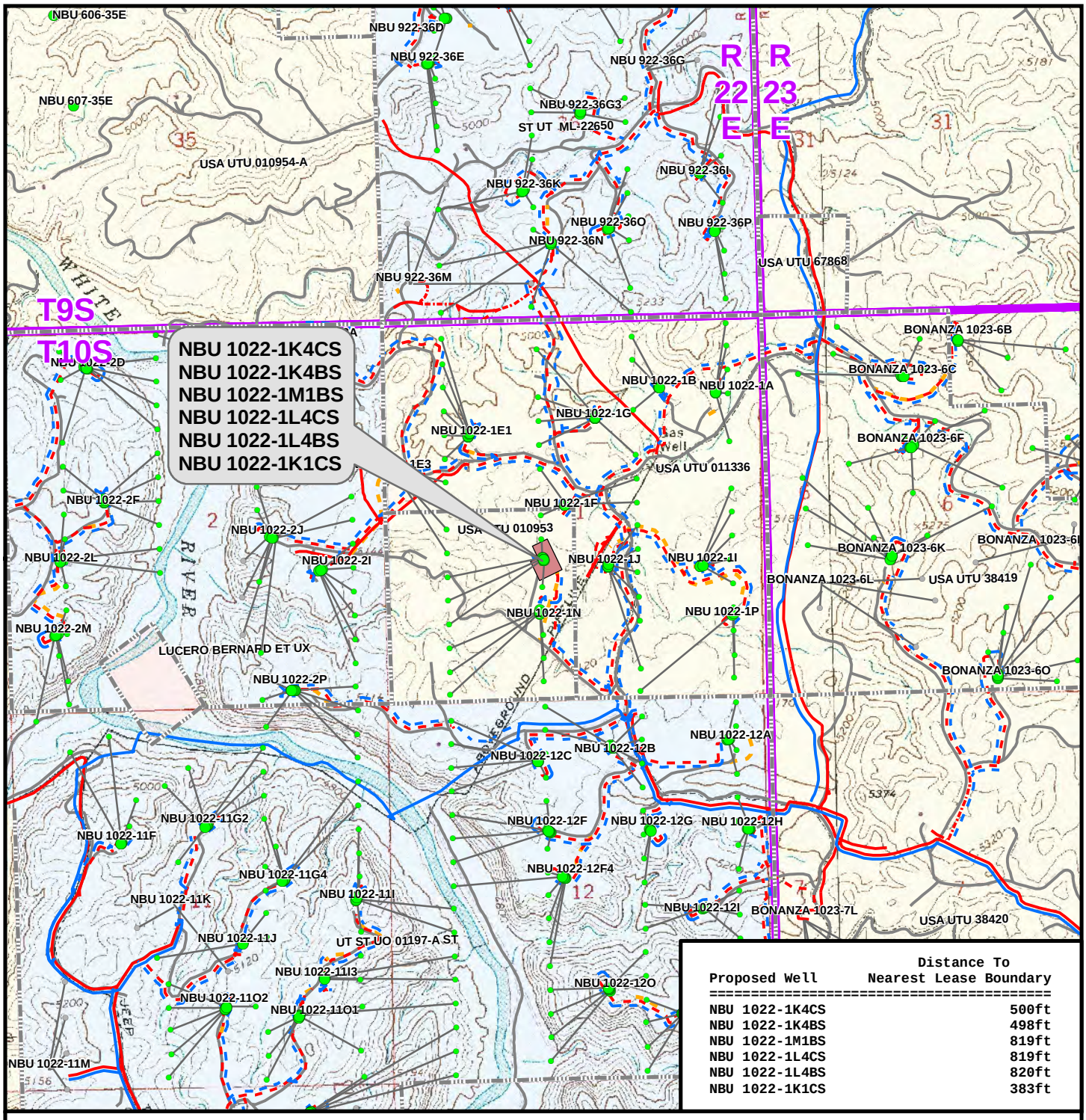
Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: JFE	Date: 13 May 2011	16 of 18
Revised: TL	Date: 8 Dec 2011	

RECEIVED: February 02, 2012



Proposed Well	Distance To Nearest Lease Boundary
NBU 1022-1K4CS	500ft
NBU 1022-1K4BS	498ft
NBU 1022-1M1BS	819ft
NBU 1022-1L4CS	819ft
NBU 1022-1L4BS	820ft
NBU 1022-1K1CS	383ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 1022-1K

TOPO E

NBU 1022-1K4CS, NBU 1022-1K4BS,
NBU 1022-1M1BS, NBU 1022-1L4CS,
NBU 1022-1L4BS & NBU 1022-1K1CS
LOCATED IN SECTION 1, T10S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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Sheridan, WY 82801
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Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 17	17 of 18
Drawn: JFE	Date: 13 May 2011		
Revised:	Date:		

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Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 1022-1K
WELLS – NBU 1022-1K4CS, NBU 1022-1K4BS, NBU 1022-1M1BS, NBU 1022-1L4CS, NBU 1022-1L4BS & NBU 1022-1K1CS
Section 1, T10S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Fidlar Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidlar Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southeasterly, then southerly direction along the Seven Sisters Road approximately 4.4 miles to an existing access road to the southwest. Exit right and proceed along the existing access road in a southwesterly, then northwesterly direction approximately 0.3 miles to the proposed access road for the NBU 1022-1N well pad. Follow road flags in a northeasterly direction approximately 150 feet to the proposed NBU 1022-1N well pad. Continue in a northeasterly direction through the proposed NBU 1022-1N well pad approximately 500 feet to the proposed access road for the proposed NBU 1022-1K well pad. Follow road flags in a northeasterly direction approximately 350 feet to the proposed NBU 1022-1K well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 47.2 miles in a southerly direction.

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API Well Number: 43047523780000

Scientific Drilling
Rocky Mountain Operations

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 1022-1K PAD
Well: NBU 1022-1K4BS
Wellbore: OH
Design: PLAN #1 PRELIMINARY

Anadarko Petroleum Corporation

T M

Azimuths to True North
Magnetic North: 11.00°

Magnetic Field
Strength: 52312.0snT
Dip Angle: 65.86°
Date: 08/22/2011
Model: IGRF2010

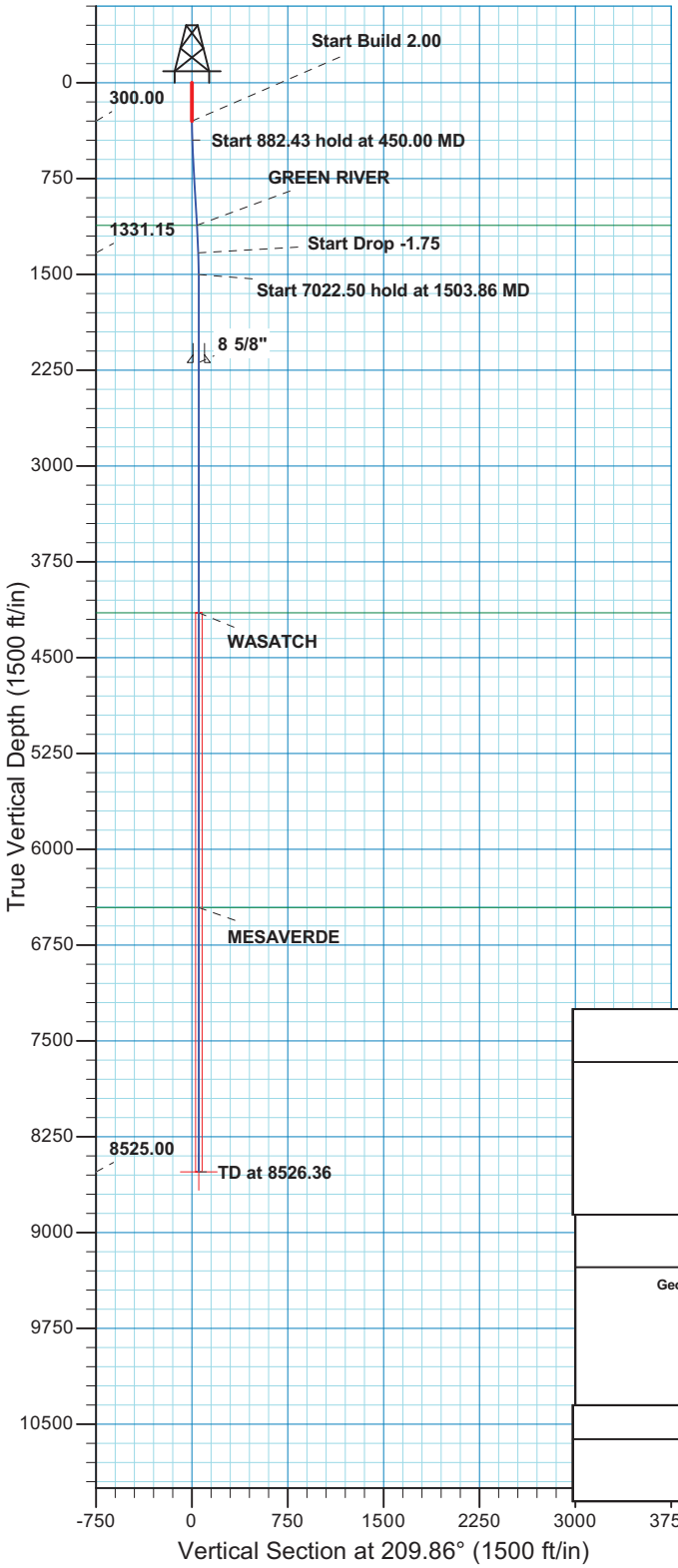
WELL DETAILS: NBU 1022-1K4BS

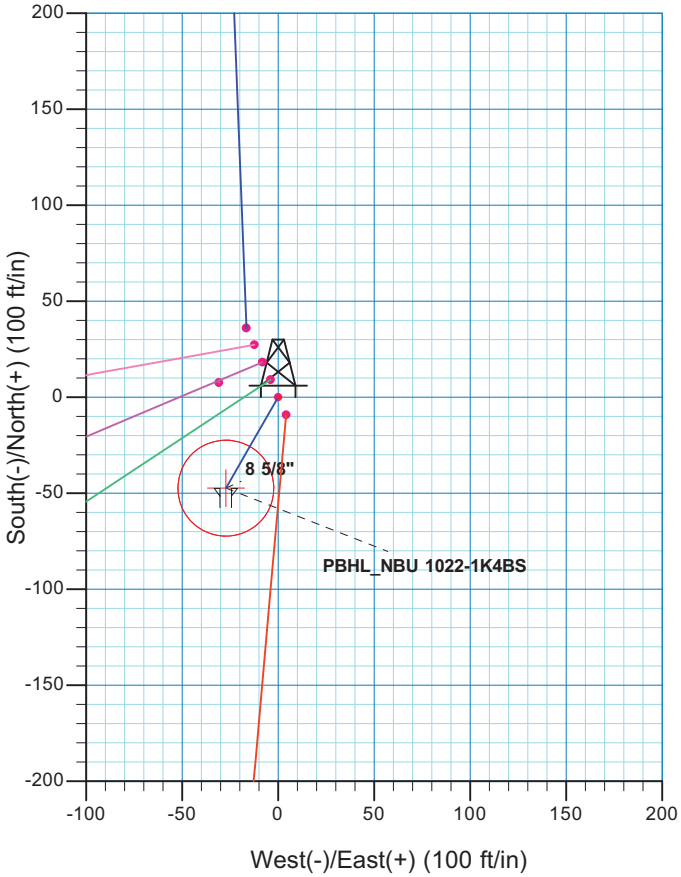
GL 5087 & KB 4 @ 5091.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14521418.48	2091680.44	39° 58' 33.971 N	109° 23' 21.401 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8525.00	-47.35	-27.18	14521370.65	2091654.12	39° 58' 33.503 N	109° 23' 21.750 W	Circle (Radius: 25.00)
	- plan hits target center							





SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
450.00	3.00	209.86	449.93	-3.40	-1.95	2.00	209.86	3.93	
1332.43	3.00	209.86	1331.15	-43.46	-24.95	0.00	0.00	50.11	
1503.86	0.00	0.00	1502.50	-47.35	-27.18	1.75	180.00	54.60	
8526.36	0.00	0.00	8525.00	-47.35	-27.18	0.00	0.00	54.60	PBHL_NBU 1022-1K4BS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 1 T10S R22E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	D
1116.00	1116.98	GREEN RIVER	
4150.00	4151.36	WASATCH	
6456.00	6457.36	MESAVERDE	

CASING DETAILS

TVD	MD	Name	Size
2190.00	2191.36	8 5/8"	8.625

RECEIVED:

Plan: PLAN #1 PRELIMINARY (NBU 1022-1K4BS/OH)

Created By: RobertScott Date: 9:00, August 23 2011

API Well Number: 43047523730000

Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
NBU 1022-1K PAD
NBU 1022-1K4BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

23 August, 2011

Anadarko Petroleum Corporation

RECEIVED: February 02, 2012

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-1K4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5087 & KB 4 @ 5091.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5087 & KB 4 @ 5091.00ft (ASSUMED)
Site:	NBU 1022-1K PAD	**North Reference:**	True
Well:	NBU 1022-1K4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site NBU 1022-1K PAD, SECTION 1 T10S R22E

Site Position:		**Northing:**	14,521,454.24 usft	**Latitude:**	39° 58' 34.327 N
From:	Lat/Long	**Easting:**	2,091,663.26 usft	**Longitude:**	109° 23' 21.613 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.04 °

Well NBU 1022-1K4BS, 1957 FSL 2162 FWL

Well Position	**+N/-S**	-36.06 ft	**Northing:**	14,521,418.49 usft	**Latitude:**	39° 58' 33.971 N
	+E/-W	16.53 ft	**Easting:**	2,091,680.44 usft	**Longitude:**	109° 23' 21.401 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	0.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/22/11	11.00	65.86	52,312

Design PLAN #1 PRELIMINARY

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	209.86

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	3.00	209.86	449.93	-3.40	-1.95	2.00	2.00	0.00	209.86	
1,332.43	3.00	209.86	1,331.15	-43.46	-24.95	0.00	0.00	0.00	0.00	
1,503.86	0.00	0.00	1,502.50	-47.35	-27.18	1.75	-1.75	0.00	180.00	
8,526.36	0.00	0.00	8,525.00	-47.35	-27.18	0.00	0.00	0.00	0.00	PBHL_NBU 1022-1K4

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-1K4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5087 & KB 4 @ 5091.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5087 & KB 4 @ 5091.00ft (ASSUMED)
Site:	NBU 1022-1K PAD	**North Reference:**	True
Well:	NBU 1022-1K4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	209.86	399.98	-1.51	-0.87	1.75	2.00	2.00	0.00
450.00	3.00	209.86	449.93	-3.40	-1.95	3.93	2.00	2.00	0.00
Start 882.43 hold at 450.00 MD									
500.00	3.00	209.86	499.86	-5.67	-3.26	6.54	0.00	0.00	0.00
600.00	3.00	209.86	599.73	-10.21	-5.86	11.78	0.00	0.00	0.00
700.00	3.00	209.86	699.59	-14.75	-8.47	17.01	0.00	0.00	0.00
800.00	3.00	209.86	799.45	-19.29	-11.07	22.24	0.00	0.00	0.00
900.00	3.00	209.86	899.31	-23.83	-13.68	27.48	0.00	0.00	0.00
1,000.00	3.00	209.86	999.18	-28.37	-16.29	32.71	0.00	0.00	0.00
1,100.00	3.00	209.86	1,099.04	-32.91	-18.89	37.94	0.00	0.00	0.00
1,116.98	3.00	209.86	1,116.00	-33.68	-19.33	38.83	0.00	0.00	0.00
GREEN RIVER									
1,200.00	3.00	209.86	1,198.90	-37.45	-21.50	43.18	0.00	0.00	0.00
1,300.00	3.00	209.86	1,298.77	-41.99	-24.10	48.41	0.00	0.00	0.00
1,332.43	3.00	209.86	1,331.15	-43.46	-24.95	50.11	0.00	0.00	0.00
Start Drop -1.75									
1,400.00	1.82	209.86	1,398.66	-45.92	-26.36	52.95	1.75	-1.75	0.00
1,500.00	0.07	209.86	1,498.64	-47.35	-27.18	54.59	1.75	-1.75	0.00
1,503.86	0.00	0.00	1,502.50	-47.35	-27.18	54.60	1.75	-1.75	0.00
Start 7022.50 hold at 1503.86 MD									
1,600.00	0.00	0.00	1,598.64	-47.35	-27.18	54.60	0.00	0.00	0.00
1,700.00	0.00	0.00	1,698.64	-47.35	-27.18	54.60	0.00	0.00	0.00
1,800.00	0.00	0.00	1,798.64	-47.35	-27.18	54.60	0.00	0.00	0.00
1,900.00	0.00	0.00	1,898.64	-47.35	-27.18	54.60	0.00	0.00	0.00
2,000.00	0.00	0.00	1,998.64	-47.35	-27.18	54.60	0.00	0.00	0.00
2,100.00	0.00	0.00	2,098.64	-47.35	-27.18	54.60	0.00	0.00	0.00
2,191.36	0.00	0.00	2,190.00	-47.35	-27.18	54.60	0.00	0.00	0.00
8 5/8"									
2,200.00	0.00	0.00	2,198.64	-47.35	-27.18	54.60	0.00	0.00	0.00
2,300.00	0.00	0.00	2,298.64	-47.35	-27.18	54.60	0.00	0.00	0.00
2,400.00	0.00	0.00	2,398.64	-47.35	-27.18	54.60	0.00	0.00	0.00
2,500.00	0.00	0.00	2,498.64	-47.35	-27.18	54.60	0.00	0.00	0.00
2,600.00	0.00	0.00	2,598.64	-47.35	-27.18	54.60	0.00	0.00	0.00
2,700.00	0.00	0.00	2,698.64	-47.35	-27.18	54.60	0.00	0.00	0.00
2,800.00	0.00	0.00	2,798.64	-47.35	-27.18	54.60	0.00	0.00	0.00
2,900.00	0.00	0.00	2,898.64	-47.35	-27.18	54.60	0.00	0.00	0.00
3,000.00	0.00	0.00	2,998.64	-47.35	-27.18	54.60	0.00	0.00	0.00
3,100.00	0.00	0.00	3,098.64	-47.35	-27.18	54.60	0.00	0.00	0.00
3,200.00	0.00	0.00	3,198.64	-47.35	-27.18	54.60	0.00	0.00	0.00
3,300.00	0.00	0.00	3,298.64	-47.35	-27.18	54.60	0.00	0.00	0.00
3,400.00	0.00	0.00	3,398.64	-47.35	-27.18	54.60	0.00	0.00	0.00
3,500.00	0.00	0.00	3,498.64	-47.35	-27.18	54.60	0.00	0.00	0.00
3,600.00	0.00	0.00	3,598.64	-47.35	-27.18	54.60	0.00	0.00	0.00
3,700.00	0.00	0.00	3,698.64	-47.35	-27.18	54.60	0.00	0.00	0.00
3,800.00	0.00	0.00	3,798.64	-47.35	-27.18	54.60	0.00	0.00	0.00
3,900.00	0.00	0.00	3,898.64	-47.35	-27.18	54.60	0.00	0.00	0.00
4,000.00	0.00	0.00	3,998.64	-47.35	-27.18	54.60	0.00	0.00	0.00
4,100.00	0.00	0.00	4,098.64	-47.35	-27.18	54.60	0.00	0.00	0.00

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-1K4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5087 & KB 4 @ 5091.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5087 & KB 4 @ 5091.00ft (ASSUMED)
Site:	NBU 1022-1K PAD	**North Reference:**	True
Well:	NBU 1022-1K4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,151.36	0.00	0.00	4,150.00	-47.35	-27.18	54.60	0.00	0.00	0.00
WASATCH									
4,200.00	0.00	0.00	4,198.64	-47.35	-27.18	54.60	0.00	0.00	0.00
4,300.00	0.00	0.00	4,298.64	-47.35	-27.18	54.60	0.00	0.00	0.00
4,400.00	0.00	0.00	4,398.64	-47.35	-27.18	54.60	0.00	0.00	0.00
4,500.00	0.00	0.00	4,498.64	-47.35	-27.18	54.60	0.00	0.00	0.00
4,600.00	0.00	0.00	4,598.64	-47.35	-27.18	54.60	0.00	0.00	0.00
4,700.00	0.00	0.00	4,698.64	-47.35	-27.18	54.60	0.00	0.00	0.00
4,800.00	0.00	0.00	4,798.64	-47.35	-27.18	54.60	0.00	0.00	0.00
4,900.00	0.00	0.00	4,898.64	-47.35	-27.18	54.60	0.00	0.00	0.00
5,000.00	0.00	0.00	4,998.64	-47.35	-27.18	54.60	0.00	0.00	0.00
5,100.00	0.00	0.00	5,098.64	-47.35	-27.18	54.60	0.00	0.00	0.00
5,200.00	0.00	0.00	5,198.64	-47.35	-27.18	54.60	0.00	0.00	0.00
5,300.00	0.00	0.00	5,298.64	-47.35	-27.18	54.60	0.00	0.00	0.00
5,400.00	0.00	0.00	5,398.64	-47.35	-27.18	54.60	0.00	0.00	0.00
5,500.00	0.00	0.00	5,498.64	-47.35	-27.18	54.60	0.00	0.00	0.00
5,600.00	0.00	0.00	5,598.64	-47.35	-27.18	54.60	0.00	0.00	0.00
5,700.00	0.00	0.00	5,698.64	-47.35	-27.18	54.60	0.00	0.00	0.00
5,800.00	0.00	0.00	5,798.64	-47.35	-27.18	54.60	0.00	0.00	0.00
5,900.00	0.00	0.00	5,898.64	-47.35	-27.18	54.60	0.00	0.00	0.00
6,000.00	0.00	0.00	5,998.64	-47.35	-27.18	54.60	0.00	0.00	0.00
6,100.00	0.00	0.00	6,098.64	-47.35	-27.18	54.60	0.00	0.00	0.00
6,200.00	0.00	0.00	6,198.64	-47.35	-27.18	54.60	0.00	0.00	0.00
6,300.00	0.00	0.00	6,298.64	-47.35	-27.18	54.60	0.00	0.00	0.00
6,400.00	0.00	0.00	6,398.64	-47.35	-27.18	54.60	0.00	0.00	0.00
6,457.36	0.00	0.00	6,456.00	-47.35	-27.18	54.60	0.00	0.00	0.00
MESAVERDE									
6,500.00	0.00	0.00	6,498.64	-47.35	-27.18	54.60	0.00	0.00	0.00
6,600.00	0.00	0.00	6,598.64	-47.35	-27.18	54.60	0.00	0.00	0.00
6,700.00	0.00	0.00	6,698.64	-47.35	-27.18	54.60	0.00	0.00	0.00
6,800.00	0.00	0.00	6,798.64	-47.35	-27.18	54.60	0.00	0.00	0.00
6,900.00	0.00	0.00	6,898.64	-47.35	-27.18	54.60	0.00	0.00	0.00
7,000.00	0.00	0.00	6,998.64	-47.35	-27.18	54.60	0.00	0.00	0.00
7,100.00	0.00	0.00	7,098.64	-47.35	-27.18	54.60	0.00	0.00	0.00
7,200.00	0.00	0.00	7,198.64	-47.35	-27.18	54.60	0.00	0.00	0.00
7,300.00	0.00	0.00	7,298.64	-47.35	-27.18	54.60	0.00	0.00	0.00
7,400.00	0.00	0.00	7,398.64	-47.35	-27.18	54.60	0.00	0.00	0.00
7,500.00	0.00	0.00	7,498.64	-47.35	-27.18	54.60	0.00	0.00	0.00
7,600.00	0.00	0.00	7,598.64	-47.35	-27.18	54.60	0.00	0.00	0.00
7,700.00	0.00	0.00	7,698.64	-47.35	-27.18	54.60	0.00	0.00	0.00
7,800.00	0.00	0.00	7,798.64	-47.35	-27.18	54.60	0.00	0.00	0.00
7,900.00	0.00	0.00	7,898.64	-47.35	-27.18	54.60	0.00	0.00	0.00
8,000.00	0.00	0.00	7,998.64	-47.35	-27.18	54.60	0.00	0.00	0.00
8,100.00	0.00	0.00	8,098.64	-47.35	-27.18	54.60	0.00	0.00	0.00
8,200.00	0.00	0.00	8,198.64	-47.35	-27.18	54.60	0.00	0.00	0.00
8,300.00	0.00	0.00	8,298.64	-47.35	-27.18	54.60	0.00	0.00	0.00
8,400.00	0.00	0.00	8,398.64	-47.35	-27.18	54.60	0.00	0.00	0.00
8,500.00	0.00	0.00	8,498.64	-47.35	-27.18	54.60	0.00	0.00	0.00
8,526.36	0.00	0.00	8,525.00	-47.35	-27.18	54.60	0.00	0.00	0.00
TD at 8526.36 - PBHL_NBU 1022-1K4BS									

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 1022-1K4BS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5087 & KB 4 @ 5091.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5087 & KB 4 @ 5091.00ft (ASSUMED)
Site:	NBU 1022-1K PAD	**North Reference:**	True
Well:	NBU 1022-1K4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 1022-1K4BS - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,525.00	-47.35	-27.18	14,521,370.65	2,091,654.12	39° 58' 33.503 N	109° 23' 21.750 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,191.36	2,190.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,116.98	1,116.00	GREEN RIVER			
4,151.36	4,150.00	WASATCH			
6,457.36	6,456.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
450.00	449.93	-3.40	-1.95	Start 882.43 hold at 450.00 MD
1,332.43	1,331.15	-43.46	-24.95	Start Drop -1.75
1,503.86	1,502.50	-47.35	-27.18	Start 7022.50 hold at 1503.86 MD
8,526.36	8,525.00	-47.35	-27.18	TD at 8526.36

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Kerr-McGee Oil & Gas Onshore. L.P.

NBU 1022-1K Pad

API #	**NBU 1022-1K1CS**			
	Surface:	1994 FSL / 2146 FWL	NESW	Lot
	BHL:	2242 FSL / 2136 FWL	NESW	Lot
API #	**NBU 1022-1K4BS**			
	Surface:	1957 FSL / 2162 FWL	NESW	Lot
	BHL:	1910 FSL / 2135 FWL	NESW	Lot
API #	**NBU 1022-1K4CS**			
	Surface:	1948 FSL / 2166 FWL	NESW	Lot
	BHL:	1578 FSL / 2134 FWL	NESW	Lot
API #	**NBU 1022-1L4BS**			
	Surface:	1985 FSL / 2150 FWL	NESW	Lot
	BHL:	1745 FSL / 820 FWL	NWSW	Lot
API #	**NBU 1022-1L4CS**			
	Surface:	1975 FSL / 2154 FWL	NESW	Lot
	BHL:	1413 FSL / 819 FWL	NWSW	Lot
API #	**NBU 1022-1M1BS**			
	Surface:	1966 FSL / 2158 FWL	NESW	Lot
	BHL:	1081 FSL / 819 FWL	SWSW	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

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Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating

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conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

The following segments are "on-lease"

±350' (0.1 miles) – Section 1 T10S R22E (SW/4) – On-lease UTU010953, new access road from the edge of the pad to the proposed new road at the NBU 1022-1N Pad. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the NBU 451-1E, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on October 6, 2011. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accomodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Exhibit A and Topo D- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent).

Kerr-McGee proposes to install gas gathering lines to tie into a previously approved buried gas pipeline covered under ROW UTU-88692. The total of this proposed gas gathering from the meter to the approved 16" gas pipeline is ±2,775' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

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±485’ (0.1 miles) – Section 1 T10S R22E (NE/4 SW/4) – On-lease UTU010953, BLM surface, New 6” buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

±335’ (0.06 miles) – Section 1 T10S R22E (NE/4 SW/4) – On-lease UTU010953, BLM surface, New 6” buried gas gathering pipeline from the edge of the pad to the proposed 10" gas gathering pipeline at the NBU 1022-1N Pad intersection. Please refer to Exhibit A, Line 14.

±495’ (0.1 miles) – Section 1 T10S R22E (SW/4) – On-lease UTU010953, BLM surface, New 10” buried gas gathering pipeline from the NBU 1022-1N Pad intersection to the SE corner of the NBU 1022-1N pad. This pipeline will be used concurrently with the NBU 1022-1N Pad. Please refer to Exhibit A, Line 13.

±205’ (0.04 miles) – Section 1 T10S R22E (SE/4 SW/4) – On-lease UTU010953, BLM surface, New 10” buried gas gathering pipeline from the SE corner of the NBU 1022-1N Pad traveling cross country to the existing road to the south. Please refer to Exhibit A, Line 12. This pipeline will be used concurrently with the NBU 1022-1N Pad.

±1,225’ (0.2 miles) – Section 1 T10S R22E (S/2) – On-lease UTU010953 and UTU011336, BLM surface, New 10” buried gas gathering pipeline from the existing road to the south of the NBU 1022-1N Pad to the tie-in at the previously approved 16"gas gathering pipeline. Please refer to Exhibit A, Line 11. This pipeline will be used concurrently with the NBU 1022-1N Pad.

Kerr-McGee proposes to install liquid gathering lines to tie into a previously approved buried liquid pipeline covered under ROW UTU-88691. The total of this proposed liquid gathering from the separator to the approved liquid pipeline is ±2,775' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±485’ (0.1 miles) – Section 1 T10S R22E (NE/4 SW/4) – On-lease UTU010953, BLM surface, New 6” buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

±335’ (0.06 miles) – Section 1 T10S R22E (NE/4 SW/4) – On-lease UTU010953, BLM surface, New 6” buried liquid gathering pipeline from the edge of the pad to the NBU 1022-1N Pad intersection. Please refer to Exhibit B, Line 14.

±495’ (0.1 miles) – Section 1 T10S R22E (SW/4) – On-lease UTU010953, BLM surface, New 6” buried liquid gathering pipeline from the NBU 1022-1N Pad intersection to the SE corner of the NBU 1022-1N pad. This pipeline will be used concurrently with the NBU 1022-1N Pad. Please refer to Exhibit B, Line 13.

±205’ (0.04 miles) – Section 1 T10S R22E (SE/4 SW/4) – On-lease UTU010953, BLM surface, New 6” buried liquid gathering pipeline from the SE corner of the NBU 1022-1N Pad traveling cross country to the existing road to the south. Please refer to Exhibit B, Line 12. This pipeline will be used concurrently with the NBU 1022-1N Pad.

±1,225’ (0.2 miles) – Section 1 T10S R22E (S/2) – On-lease UTU010953 and UTU011336, BLM surface, New 6” buried liquid gathering pipeline from the existing road to the south of the NBU 1022-1N Pad to the tie-in at the previously approved liquid gathering pipeline. Please refer to Exhibit B, Line 11. This pipeline will be used concurrently with the NBU 1022-1N Pad.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be

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utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' distrubance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent distrubance width is for maintenance and repairs. Cross country permanent distrubance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route’s intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM’s Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage

crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the

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surface. Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is disussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6” aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

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The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum

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hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an

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approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E

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CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of distrubance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

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Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

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Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for

re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Shadescale Mix	**Pure Live Seed lbs/acre**
Indian Ricegrass	3
Sandberg	0.75
Bottlebrush	1
Great Basin	0.5
Crested	1.5
Winterfat	0.25
Shadscale	1.5
Four-wing saltbush	0.75
Forage Kochia	0.25
Total	9.5

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

Monitoring

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to

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determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

Resource Reports:

A Class I literature survey was completed in May 2011 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 11-145.

A paleontological reconnaissance survey was completed in June, 2010 and July, 2011 by SWCA Environmental Consultants. For additional details please refer to reports UT11-14314-29, UT11-14314-32 and UT11-14314-33.

Biological field survey was completed in May and June of 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to reports GCI-516 and GCI 559.

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Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year)[1]

Pollutant	Development	Production	Total
NOx	3.8	0.12	3.92
CO	2.2	0.11	2.31
VOC	0.1	4.9	5
SO_2	0.005	0.0043	0.0093
PM_{10}	1.7	0.11	1.81
$PM_{2.5}$	0.4	0.025	0.425
Benzene	2.2E-03	0.044	0.046
Toluene	1.6E-03	0.103	0.105
Ethylbenzene	3.4E-04	0.005	0.005
Xylene	1.1E-03	0.076	0.077
n-Hexane	1.7E-04	0.145	0.145
Formaldehyde	1.3E-02	8.64E-05	1.31E-02

[1] Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison

Species	Production Emissions	2012 Uintah Basin	Proposed Action to
NOx	23.52	16,547	0.14%
VOC	30	127,495	0.02%

[a] http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html Uintah Basin Data

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M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T.Becker

October 10, 2011
Date

Joseph D. Johnson
1099 18TH STREET STE. 1800 • DENVER, CO 80202
720-929-6708 • FAX 720-929-7708
E-MAIL: JOE.JOHNSON@ANADARKO.COM

September 28, 2011

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 1022-1K4BS
T10S-R22E
Section 1: NESW/NESW
Surface: 1957' FSL, 2162' FWL
Bottom Hole: 1910' FSL, 2135' FWL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 1022-1K4BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joseph D. Johnson
Landman

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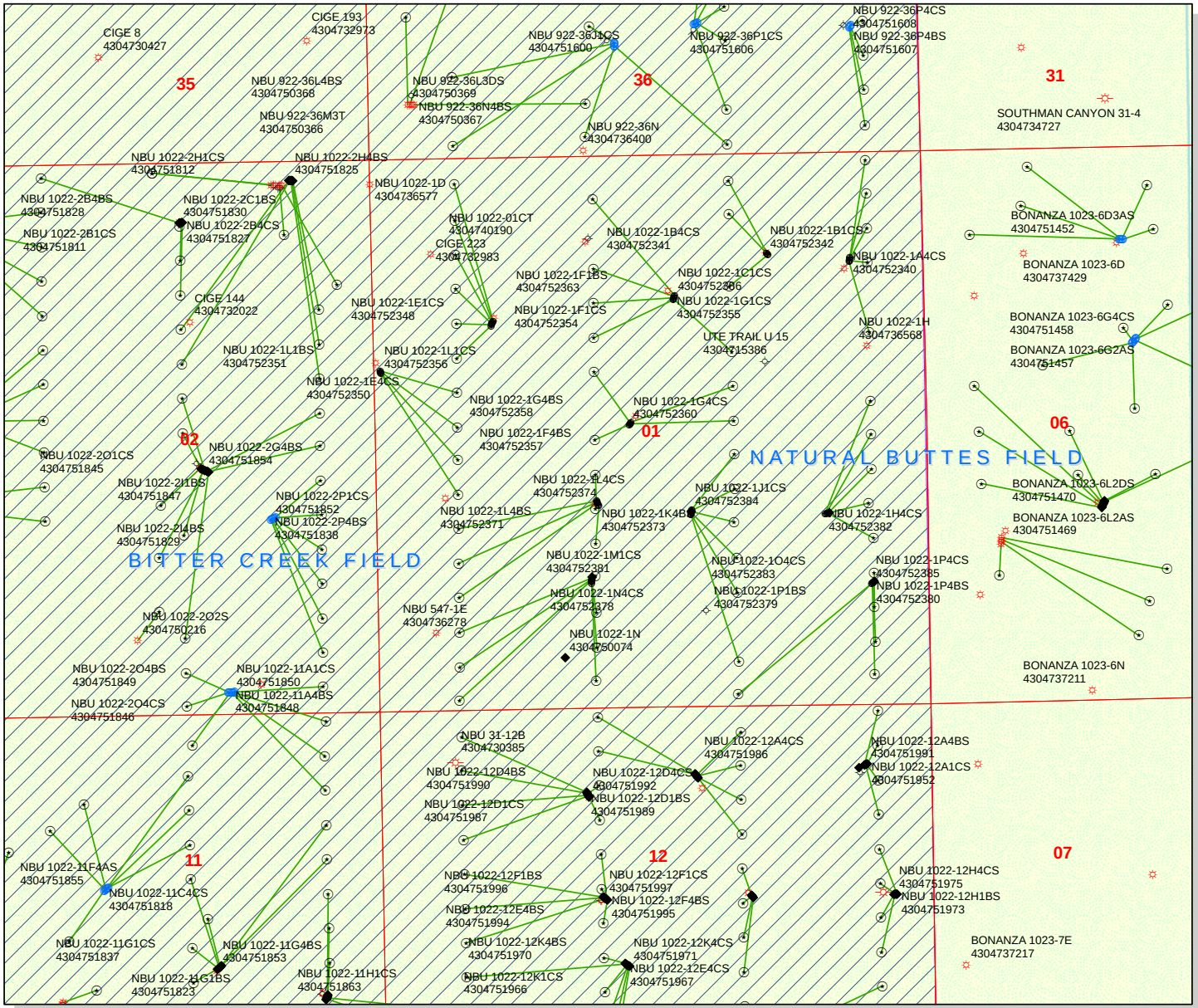
API Well Number: 43047523730000



API Number: 4304752373

Well Name: NBU 1022-1K4BS

Township T1.0 . Range R2.2 . Section 01

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

Wells Query
Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

1,200 600 0 1,200 Feet

1:11,874

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United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

February 10, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
WELL PAD - NBU 1022-25D		
43-047-52295	NBU 1022-25C2DS	Sec 25 T10S R22E 0653 FNL 0339 FWL BHL Sec 25 T10S R22E 0488 FNL 1933 FWL
43-047-52296	NBU 1022-25C3DS	Sec 25 T10S R22E 0730 FNL 0314 FWL BHL Sec 25 T10S R22E 1147 FNL 1931 FWL
43-047-52297	NBU 1022-25C3AS	Sec 25 T10S R22E 0732 FNL 0324 FWL BHL Sec 25 T10S R22E 0820 FNL 1938 FWL
43-047-52298	NBU 1022-25D2DS	Sec 25 T10S R22E 0650 FNL 0319 FWL (BH) BHL Sec 25 T10S R22E 0485 FNL 0630 FWL
43-047-52299	NBU 1022-25F2AS	Sec 25 T10S R22E 0652 FNL 0329 FWL BHL Sec 25 T10S R22E 1482 FNL 1955 FWL
43-047-52300	NBU 1022-25D3DS	Sec 25 T10S R22E 0727 FNL 0295 FWL BHL Sec 25 T10S R22E 1152 FNL 0630 FWL
43-047-52301	NBU 1022-25D3AS	Sec 25 T10S R22E 0729 FNL 0305 FWL BHL Sec 25 T10S R22E 0822 FNL 0631 FWL
43-047-52302	NBU 1022-25E2AS	Sec 25 T10S R22E 0648 FNL 0309 FWL BHL Sec 25 T10S R22E 1479 FNL 0631 FWL
WELL PAD - NBU 1022-1A		
43-047-52335	NBU 1022-1A1BS	Sec 01 T10S R22E 1030 FNL 0663 FEL BHL Sec 01 T10S R22E 0099 FNL 0498 FEL

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API #	WELL NAME	LOCATION

(Proposed PZ WASATCH-MESA VERDE)

43-047-52336	NBU 1022-1A1CS	Sec 01 T10S R22E 1040 FNL 0665 FEL
		BHL Sec 01 T10S R22E 0416 FNL 0493 FEL
43-047-52337	NBU 1022-1A4BS	Sec 01 T10S R22E 1050 FNL 0667 FEL
		BHL Sec 01 T10S R22E 0748 FNL 0493 FEL
43-047-52338	NBU 1022-1H1CS	Sec 01 T10S R22E 1069 FNL 0670 FEL
		BHL Sec 01 T10S R22E 1745 FNL 0493 FEL
43-047-52340	NBU 1022-1A4CS	Sec 01 T10S R22E 1059 FNL 0668 FEL
		BHL Sec 01 T10S R22E 1083 FNL 0497 FEL
WELL PAD - NBU 1022-1B		
43-047-52339	NBU 1022-1B1BS	Sec 01 T10S R22E 0976 FNL 1453 FEL
		BHL Sec 01 T10S R22E 0262 FNL 1811 FEL
43-047-52341	NBU 1022-1B4CS	Sec 01 T10S R22E 0984 FNL 1447 FEL
		BHL Sec 01 T10S R22E 1282 FNL 1825 FEL
43-047-52342	NBU 1022-1B1CS	Sec 01 T10S R22E 0968 FNL 1459 FEL
		BHL Sec 01 T10S R22E 0580 FNL 1812 FEL
WELL PAD - NBU 1022-1E1		
43-047-52343	NBU 1022-1D1BS	Sec 01 T10S R22E 1559 FNL 1172 FWL
		BHL Sec 01 T10S R22E 0238 FNL 0820 FWL
43-047-52344	NBU 1022-1D1CS	Sec 01 T10S R22E 1568 FNL 1168 FWL
		BHL Sec 01 T10S R22E 0585 FNL 0820 FWL
43-047-52345	NBU 1022-1D4BS	Sec 01 T10S R22E 1577 FNL 1164 FWL
		BHL Sec 01 T10S R22E 0912 FNL 0822 FWL
43-047-52346	NBU 1022-1D4CS	Sec 01 T10S R22E 1586 FNL 1160 FWL
		BHL Sec 01 T10S R22E 1244 FNL 0822 FWL
43-047-52347	NBU 1022-1E1BS	Sec 01 T10S R22E 1596 FNL 1156 FWL
		BHL Sec 01 T10S R22E 1576 FNL 0821 FWL
43-047-52348	NBU 1022-1E1CS	Sec 01 T10S R22E 1605 FNL 1152 FWL
		BHL Sec 01 T10S R22E 1909 FNL 0821 FWL
WELL PAD - NBU 1022-1E3		
43-047-52349	NBU 1022-1E4BS	Sec 01 T10S R22E 2011 FNL 0086 FWL
		BHL Sec 01 T10S R22E 2241 FNL 0821 FWL
43-047-52350	NBU 1022-1E4CS	Sec 01 T10S R22E 2020 FNL 0088 FWL
		BHL Sec 01 T10S R22E 2573 FNL 0821 FWL
43-047-52351	NBU 1022-1L1BS	Sec 01 T10S R22E 2030 FNL 0091 FWL
		BHL Sec 01 T10S R22E 2409 FSL 0820 FWL
43-047-52356	NBU 1022-1L1CS	Sec 01 T10S R22E 2040 FNL 0094 FWL
		BHL Sec 01 T10S R22E 2077 FSL 0820 FWL
WELL PAD - NBU 1022-1F		
43-047-52352	NBU 1022-1K1BS	Sec 01 T10S R22E 2588 FNL 2468 FWL
		BHL Sec 01 T10S R22E 2574 FSL 2136 FWL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE		
43-047-52357	NBU 1022-1F4BS	Sec 01 T10S R22E 2573 FNL 2480 FWL
		BHL Sec 01 T10S R22E 2076 FNL 2138 FWL
43-047-52358	NBU 1022-1G4BS	Sec 01 T10S R22E 2565 FNL 2486 FWL
		BHL Sec 01 T10S R22E 2242 FNL 1808 FEL
43-047-52360	NBU 1022-1G4CS	Sec 01 T10S R22E 2580 FNL 2474 FWL
		BHL Sec 01 T10S R22E 2574 FNL 1808 FEL
WELL PAD - NBU 1022-1G		
43-047-52353	NBU 1022-1C4CS	Sec 01 T10S R22E 1366 FNL 2354 FEL
		BHL Sec 01 T10S R22E 1080 FNL 2140 FWL
43-047-52354	NBU 1022-1F1CS	Sec 01 T10S R22E 1395 FNL 2362 FEL
		BHL Sec 01 T10S R22E 1744 FNL 2138 FWL
43-047-52355	NBU 1022-1G1CS	Sec 01 T10S R22E 1385 FNL 2359 FEL
		BHL Sec 01 T10S R22E 1909 FNL 1809 FEL
43-047-52363	NBU 1022-1F1BS	Sec 01 T10S R22E 1375 FNL 2357 FEL
		BHL Sec 01 T10S R22E 1412 FNL 2139 FWL
43-047-52386	NBU 1022-1C1CS	Sec 01 T10S R22E 1356 FNL 2351 FEL
		BHL Sec 01 T10S R22E 0415 FNL 2141 FWL
WELL PAD - NBU 1022-1J		
43-047-52359	NBU 1022-1J1BS	Sec 01 T10S R22E 1887 FSL 2226 FEL
		BHL Sec 01 T10S R22E 2410 FSL 1807 FEL
43-047-52362	NBU 1022-1O1BS	Sec 01 T10S R22E 1847 FSL 2232 FEL
		BHL Sec 01 T10S R22E 1081 FSL 1805 FEL
43-047-52366	NBU 1022-1J4CS	Sec 01 T10S R22E 1857 FSL 2231 FEL
		BHL Sec 01 T10S R22E 1413 FSL 1805 FEL
43-047-52367	NBU 1022-1O4BS	Sec 01 T10S R22E 1838 FSL 2234 FEL
		BHL Sec 01 T10S R22E 0417 FSL 1804 FEL
43-047-52384	NBU 1022-1J1CS	Sec 01 T10S R22E 1877 FSL 2227 FEL
		BHL Sec 01 T10S R22E 2078 FSL 1807 FEL
WELL PAD - NBU 1022-1K		
43-047-52361	NBU 1022-1M1BS	Sec 01 T10S R22E 1966 FSL 2158 FWL
		BHL Sec 01 T10S R22E 1081 FSL 0819 FWL
43-047-52365	NBU 1022-1K1CS	Sec 01 T10S R22E 1994 FSL 2146 FWL
		BHL Sec 01 T10S R22E 2242 FSL 2136 FWL
43-047-52370	NBU 1022-1K4CS	Sec 01 T10S R22E 1948 FSL 2166 FWL
		BHL Sec 01 T10S R22E 1578 FSL 2134 FWL
43-047-52371	NBU 1022-1L4BS	Sec 01 T10S R22E 1985 FSL 2150 FWL
		BHL Sec 01 T10S R22E 1745 FSL 0820 FWL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE		
43-047-52373	NBU 1022-1K4BS	Sec 01 T10S R22E 1957 FSL 2162 FWL
		BHL Sec 01 T10S R22E 1910 FSL 2135 FWL
43-047-52374	NBU 1022-1L4CS	Sec 01 T10S R22E 1975 FSL 2154 FWL
		BHL Sec 01 T10S R22E 1413 FSL 0819 FWL
WELL PAD - NBU 1022-1I		
43-047-52364	NBU 1022-1I4CS	Sec 01 T10S R22E 1828 FSL 0928 FEL
		BHL Sec 01 T10S R22E 1579 FSL 0492 FEL
43-047-52368	NBU 1022-1I1BS	Sec 01 T10S R22E 1826 FSL 0937 FEL
		BHL Sec 01 T10S R22E 2576 FSL 0492 FEL
43-047-52369	NBU 1022-1I1CS	Sec 01 T10S R22E 1830 FSL 0918 FEL
		BHL Sec 01 T10S R22E 2243 FSL 0492 FEL
43-047-52382	NBU 1022-1H4CS	Sec 01 T10S R22E 1824 FSL 0947 FEL
		BHL Sec 01 T10S R22E 2410 FNL 0492 FEL
WELL PAD - NBU 1022-1N		
43-047-52372	NBU 1022-1M4CS	Sec 01 T10S R22E 1228 FSL 2092 FWL
		BHL Sec 01 T10S R22E 0098 FSL 0810 FWL
43-047-52375	NBU 1022-1M4BS	Sec 01 T10S R22E 1238 FSL 2093 FWL
		BHL Sec 01 T10S R22E 0416 FSL 0819 FWL
43-047-52376	NBU 1022-1N1CS	Sec 01 T10S R22E 1218 FSL 2092 FWL
		BHL Sec 01 T10S R22E 0914 FSL 2133 FWL
43-047-52377	NBU 1022-1N4BS	Sec 01 T10S R22E 1208 FSL 2091 FWL
		BHL Sec 01 T10S R22E 0581 FSL 2132 FWL
43-047-52378	NBU 1022-1N4CS	Sec 01 T10S R22E 1198 FSL 2090 FWL
		BHL Sec 01 T10S R22E 0262 FSL 2124 FWL
43-047-52381	NBU 1022-1M1CS	Sec 01 T10S R22E 1248 FSL 2094 FWL
		BHL Sec 01 T10S R22E 0748 FSL 0819 FWL
WELL PAD - NBU 1022-1P		
43-047-52379	NBU 1022-1P1BS	Sec 01 T10S R22E 1168 FSL 0485 FEL
		BHL Sec 01 T10S R22E 1246 FSL 0491 FEL
43-047-52380	NBU 1022-1P4BS	Sec 01 T10S R22E 1154 FSL 0500 FEL
		BHL Sec 01 T10S R22E 0582 FSL 0491 FEL
43-047-52383	NBU 1022-1O4CS	Sec 01 T10S R22E 1141 FSL 0515 FEL
		BHL Sec 01 T10S R22E 0106 FSL 1816 FEL
43-047-52385	NBU 1022-1P4CS	Sec 01 T10S R22E 1148 FSL 0508 FEL
		BHL Sec 01 T10S R22E 0270 FSL 0503 FEL

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The NBU 1022-25D2DS, 43-047-52298, is being permitted to target productive horizons below the unitized zone of the Natural Buttes Unit as defined in Section 3 of said agreement. We recommend not approving commingling of production with these zones and the unitized zones of the Natural Buttes Unit until this matter has been resolved by the BLM's Utah State Office.

This office has no other objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2012.02.10 08:36:59 -07'00'

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:2-10-12

RECEIVED: February 10, 2012

API Well Number: 43047523730000

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/3/2012 **API NO. ASSIGNED:** 43047523730000

WELL NAME: NBU 1022-1K4BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: NESW 01 100S 220E **Permit Tech Review:** ☑

SURFACE: 1957 FSL 2162 FWL **Engineering Review:** ☑

BOTTOM: 1910 FSL 2135 FWL **Geology Review:** ☑

COUNTY: UINTAH

LATITUDE: 39.97607 **LONGITUDE:** -109.39010

UTM SURF EASTINGS: 637472.00 **NORTHINGS:** 4426342.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-010953 **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** FEDERAL - WYB000291
- ☐ **Potash**
- ☑ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☑ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: NATURAL BUTTES

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 173-14

Effective Date: 12/2/1999

Siting: Suspends General Siting

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
3 - Commingling - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason

RECEIVED: February 15, 2012

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: NBU 1022-1K4BS
API Well Number: 43047523730000
Lease Number: UTU-010953
Surface Owner: FEDERAL
Approval Date: 2/15/2012

Issued to:
KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:
In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels at 801-538-5284
  (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers
Associate Director, Oil & Gas

RECEIVED
JUN 18 2012
DIV. OF OIL, GAS & MINING

RECEIVED
OCT 20 2011
BLM VERNAL, UTAH

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU010953

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
UTU63047A

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

8. Lease Name and Well No.
NBU 1022-1K4BS

2. Name of Operator
KERR-MCGEE OIL & GAS ONSHORE LP
Contact: GINA T BECKER
E-Mail: GINA.BECKER@ANADARKO.COM

9. API Well No.
43-047-52373.

3a. Address
P.O. BOX 173779
DENVER, CO 80202-3779

3b. Phone No. (include area code)
Ph: 720-929-6086
Fx: 720-929-7086

10. Field and Pool, or Exploratory
NATURAL BUTTES

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface NESW 1957FSL 2162FWL 39.976068 N Lat, 109.389958 W Lon

At proposed prod. zone NESW 1910FSL 2135FWL 39.975939 N Lat, 109.390056 W Lon

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 1 T10S R22E Mer SLB

14. Distance in miles and direction from nearest town or post office*
APPROXIMATELY 46 MILES SOUTH OF VERNAL, UTAH

12. County or Parish
UINTAH

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
498

16. No. of Acres in Lease
640.00

17. Spacing Unit dedicated to this well

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
498

19. Proposed Depth
8526 MD
8525 TVD

20. BLM/BIA Bond No. on file
WYB000291

21. Elevations (Show whether DF, KB, RT, GL, etc.
5088 GL

22. Approximate date work will start
03/01/2012

23. Estimated duration
60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature	Name (Printed/Typed)	Date
(Electronic Submission)	GINA T BECKER Ph: 720-929-6086	10/12/2011

Title
REGULATORY ANALYST II

Approved by (Signature)	Name (Printed/Typed)	Date
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	JUN 08 2012

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached. CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #120045 verified by the BLM Well Information System
For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal

NOTICE OF APPROVAL

UDOGM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

171RIRXBOAE

APD Dated 10/21/11

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Kerr-McGee Oil & Gas Onshore, LP**	**Location:**	**NESW Sec. 1, T10S, R22E**
Well No:	**NBU 1022-1K4BS**	**Lease No:**	**UTU-010953**
API No:	**43-047-52373**	**Agreement:**	**Natural Butte**

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NOx per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.

- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NOx per horsepower-hour.

- The following shall be used as standard operating procedures: Green completion or controlled VOC emissions methods with 90% efficiency for Oil or Gas Atmospheric Storage Tanks, VOC Venting controls or flaring, Glycol Dehydration and Amine Unites, Well Completion, Re-Completion, Venting, and Planned Blowdown Emissions.

- All reclamation will comply with the Green River Reclamation Guidelines

- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.

- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established

- Noxious and invasive weeds will be controlled throughout the area of project disturbance.

- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.

- A pesticide use proposal (PUP) will be obtained for the project.

- A permitted paleontologist is to be present to monitor construction at well pads CIGE 31 (AKA NBU 1022-1E1) and NBU 1022-1I during all surface disturbing actives: examples include the following building of the well pad, access road, and pipelines.

- The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.

- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
  a. Do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
  b. Limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
  c. Limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.

- Screen all pump intakes with 3/32 inch mesh material.

- Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).

- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:
  Northeastern Region
  152 East 100 North, Vernal, UT 84078
  Phone: (435) 781-9453

- Kerr McGee can only use the following water source:
  Permit # 49-2307 JD Field Services Green River-Section 15, T2N, R22E

The following measures are required by and have been committed to by Anadarko for all areas where surface disturbing activities cannot be avoided by the required 300 foot buffer from identified Uinta Basin hookless cactus individuals

1. Silt fencing will be used to protect populations within 300 feet of surface disturbing activities that are downslope or downwind of the surface disturbance
2. A qualified botanist will be on site to monitor the surface-disturbing activities.
3. Dust abatement will occur and will be done using only water.
4. All cacti within 300 feet will be flagged immediately prior to surface-disturbing activities are completed.
5. Pipelines will be located to the far side of the ROW to maximize distance from cacti.
6. Project personnel associated with construction activities will be instructed to drive a speed limit of 15 miles per hour on unpaved roads and to remain on the existing roads and approved ROW at all times.

To maintain compliance with current cactus survey protocols, the following measures will be required

1. If construction does not occur within 4 years of the original survey date, new 100% clearance surveys will be required.
2. Prior to construction within 4 years of the original survey date, a spot check survey will be required during the year of construction. KMG and their respective 3rd party surveyor will refer to the current *Sclerocactus* Spot Check Survey Methods, to determine site specific survey distances and intensity levels.
3. Spot check reports will be reported to the BLM and the US Fish and Wildlife Service.
4. Construction will not commence until written approval is received from the BLM

Discovery Stipulation: Reinitiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 200' up and into the surface casing.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and/or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By J. Scharnowske Phone Number 720.929.6304
Well Name/Number NBU 1022-1K4BS
Qtr/Qtr NESW Section 1 Township 10S Range 22E
Lease Serial Number UTU 010953
API Number 4304752373

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 09/18/2012 09:00 HRS AM ☑ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☑ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 09/26/2012 08:00 HRS AM ☑ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

RECEIVED
SEP 18 2012
DIV. OF OIL, GAS & MINING

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT 435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU-010953

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-1K4BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047523730000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1957 FSL 2162 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☑ SPUD REPORT Date of Spud: 9/19/2012	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CEMENT WITH 28 SACKS READY MIX. SPUD WELL LOCATION ON SEPTEMBER 19, 2012 AT 11:30 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
September 28, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		9/25/2012

RECEIVED: Sep. 25, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6857

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752370	NBU 1022-1K4CS		NESW	1	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	9999	2900	9/19/2012			9/27/2012	

Comments: MIRU TRIPLE A BUCKET RIG.
SPUD WELL LOCATION ON 09/19/2012 AT 08:00 HRS. WSMVD BHL: NESW

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752373	NBU 1022-1K4BS		NESW	1	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	9999	2900	9/19/2012			9/27/2012	

Comments: MIRU TRIPLE A BUCKET RIG.
SPUD WELL LOCATION ON 09/19/2012 AT 11:30 HRS. WSMVD BHL: NESW

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752361	NBU 1022-1M1BS		NESW	1	10S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	9999	2900	9/19/2012			9/27/2012	

Comments: MIRU TRIPLE A BUCKET RIG.
SPUD WELL LOCATION ON 09/19/2012 AT 14:30 HRS. WSMVD BHL: SWSW

ACTION CODES:
- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

Lindsey A Frazier
Name (Please Print)
Signature
REGULATORY ANALYST II
Title
9/25/2012
Date

RECEIVED
SEP 26 2012
Div. of Oil, Gas & Mining

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-010953

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1K4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047523730000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1957 FSL 2162 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 11/2/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of October 2012. Well TD at 2,325.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
November 02, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE N/A		**DATE** 11/2/2012

RECEIVED: Nov. 02, 2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-010953

SUNDRY NOTICES AND REPORTS ON WELLS

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7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1K4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047523730000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1957 FSL 2162 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 12/3/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of November 2012. Well TD at 2,325.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
December 04, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE N/A		**DATE** 12/3/2012

RECEIVED: Dec. 03, 2012

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# XTREME 12
Submitted By JOE MADSEN Phone Number 435- 828-0985
Well Name/Number NBU 1022-1K4BS
Qtr/Qtr NE/SW Section 1 Township 10 S Range 22E
Lease Serial Number UTU 010953
API Number 43-047-52373

Casing – Time casing run starts, not cementing times.

☐ Production Casing
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

BOPE
☒ Initial BOPE test at surface casing point
☐ Other

Date/Time 1/18/2013 04:30 AM ☒ PM ☐

RECEIVED
JAN 2 3 2013
DIV. OF OIL, GAS & MINING

Rig Move
Location To:

Date/Time _____ _____ AM ☐ PM ☐

Remarks TIME IS ESTIMATED

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# XTREME 12
Submitted By JOE MADSEN Phone Number 435- 828-0985
Well Name/Number NBU 1022-1K4BS
Qtr/Qtr NE/SW Section 1 Township 10 S Range 22E
Lease Serial Number UTU 010953
API Number 43-047-52373

Casing – Time casing run starts, not cementing times.

☒ Production Casing
☐ Other

Date/Time 1/26/2013 02:00 AM ☒ PM ☐

BOPE
☐ Initial BOPE test at surface casing point
☐ Other

Date/Time _____ _ AM ☐ PM ☐

RECEIVED
JAN 24 2013
DIV. OF OIL, GAS & MINING

Rig Move
Location To:

Date/Time _____ _____ AM ☐ PM ☐

Remarks TIME IS ESTIMATED

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-010953

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1K4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047523730000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1957 FSL 2162 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 1/26/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING TO 8,560' ON 01/24/2013. CEMENTED PRODUCTION CASING. RELEASED XTC 12 RIG ON 01/26/2013. DETAILS OF CASING AND CEMENT WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
February 13, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Abrams	720 929-6356	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		1/29/2013

RECEIVED: Jan. 29, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-010953

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1K4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047523730000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1957 FSL 2162 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 3/4/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No Activity for the month of February 2013. Well TD at 8,560

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
March 04, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		3/4/2013

RECEIVED: Mar. 04, 2013

Sundry Number: 34528 API Well Number: 43047523730000

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU-010953

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 1022-1K4BS

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047523730000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1957 FSL 2162 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 2/6/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Multi-Phase Meter

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator is requesting the option to measure total gas produced from a pad, and to allocate gas production to the individual wells on the pad based upon multi-phase flow measurement at each well and periodic well tests. Please see the attached documents. Thank you. Pad Well API NBU 1022-01K NBU 1022-1K1CS 4304752365 NBU 1022-01K NBU 1022-1K4BS 4304752373 NBU 1022-01K NBU 1022-1K4CS 4304752370 NBU 1022-01K NBU 1022-1L4BS 4304752371 NBU 1022-01K NBU 1022-1L4CS 4304752374 NBU 1022-01K NBU 1022-1M1BS 4304752361

Approved by the Utah Division of Oil, Gas and Mining

Date: March 05, 2013

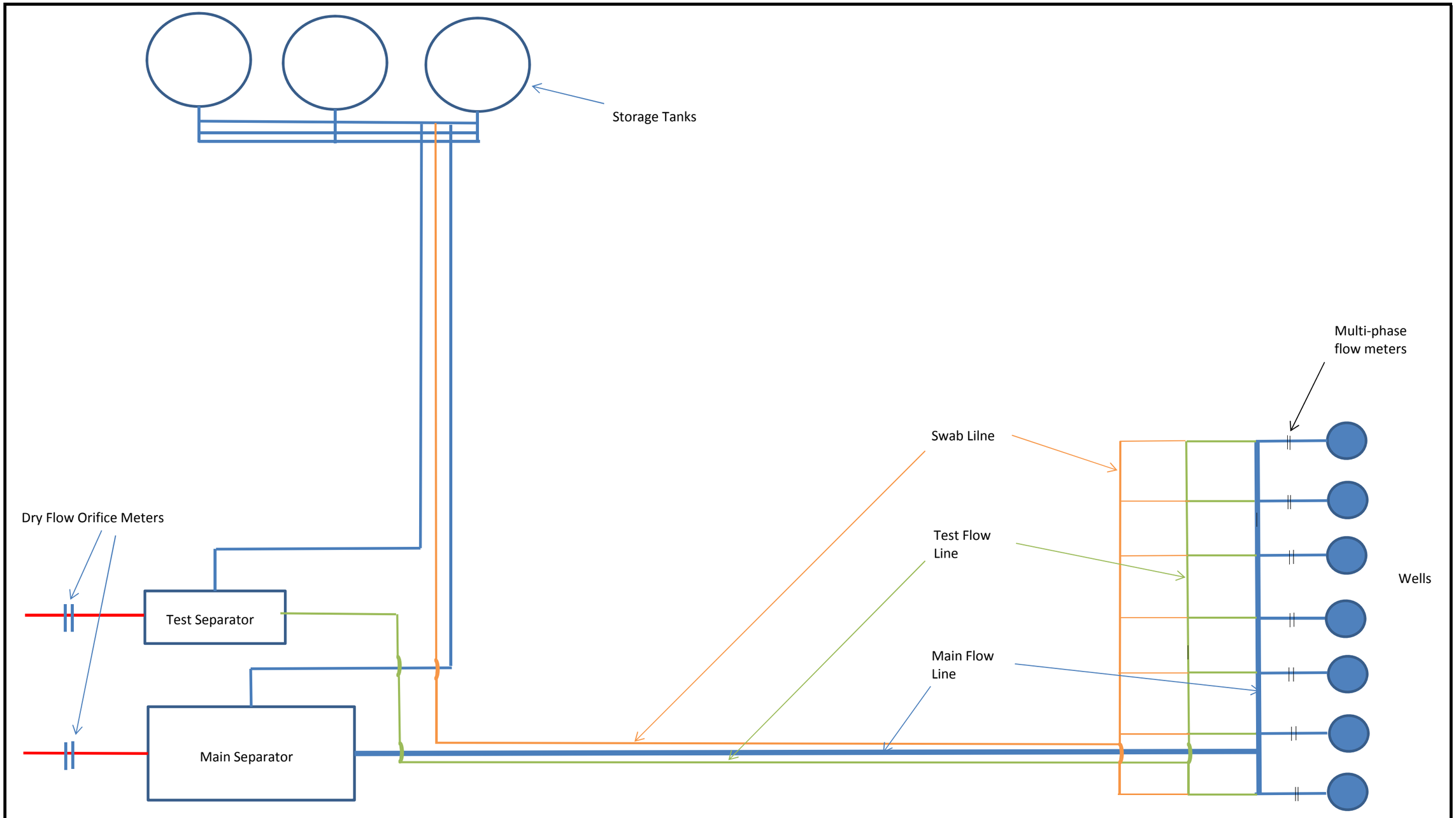
By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II
SIGNATURE		**DATE**
N/A		2/6/2013

RECEIVED: Feb. 06, 2013

The fluids from each well will be measured utilizing a multi-phase flow meter and then directed to a common separator for all wells on the pad. Liquids would be directed to tanks and the gas from all the wells measured through a calibrated orifice meter. The volume of gas measured through this meter, plus fuel gas consumed on location, will be the volume of gas that is produced from the pad. Gas volume for each individual well on the pad will be based on an allocation formula utilizing the total pad volume measured plus fuel gas consumed and the calculated volume from each well utilizing the multi-phase flow meters. The multi-phase flow meter volume calculation will be calibrated by periodic individual well tests.

RECEIVED: Feb. 06, 2013



Location Diagram with Multi-phase flow meters, main separator, test separator and associated storage tanks and flowlines.
28-Jun-12

RECEIVED: Feb. 06, 2013

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-010953

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1K4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047523730000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1957 FSL 2162 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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TYPE OF SUBMISSION	TYPE OF ACTION		
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☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 4/3/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well. Well TD at 8,560

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
April 03, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE		**DATE**
N/A		4/3/2013

RECEIVED: Apr. 03, 2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-010953

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1022-1K4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047523730000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1957 FSL 2162 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 01 Township: 10.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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TYPE OF SUBMISSION	TYPE OF ACTION		
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☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 4/26/2013	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 04/26/2013. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
April 29, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist
SIGNATURE N/A		**DATE** 4/29/2013

API Well Number: 43047523730000

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: UTU010953

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.: UTU63047A

2. Name of Operator: KERR MCGEE OIL&GAS ONSHORE LP
Contact: TEENA PAULO
E-Mail: teena.paulo@anadarko.com

8. Lease Name and Well No.: NBU 1022-1K4BS

3. Address: PO BOX 173779
DENVER, CO 80217

3a. Phone No. (include area code)
Ph: 720-929-6236

9. API Well No.: 43-047-52373

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface: NESW 1957FSL 2162FWL 39.976068 N Lat, 109.389958 W Lon

At top prod interval reported below: NESW 1918FSL 2128FWL

At total depth: NESW 1902FSL 2148FWL

10. Field and Pool, or Exploratory: NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area: Sec 1 T10S R22E Mer SLB

12. County or Parish: UINTAH

13. State: UT

14. Date Spudded: 09/19/2012

15. Date T.D. Reached: 01/24/2013

16. Date Completed ☐ D & A ☐ Ready to Prod.: 04/26/2013

17. Elevations (DF, KB, RT, GL)*: 5102 KB

18. Total Depth: MD 8560 TVD 8558

19. Plug Back T.D.: MD 8490 TVD 8488

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
SD/DSN/ACTR-BHV-CBL/GR/CCL/TEMP

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2302		825		0	
7.875	4.500 I-80	11.6	0	8537		1490		254	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7876							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	WASATCH	5313	5533	5313 TO 5533	0.360	20	OPEN
B)	MESAVERDE	6980	8375	6980 TO 8375	0.360	132	OPEN
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5313 TO 8375	PUMP 7,218 BBLS SLICK H2O & 154,567 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/26/2013	05/02/2013	24	→	20.0	2944.0	0.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
20/64	1687	1957.0	→	20	2944	0		PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #207995 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED: May. 20, 2013

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER	1293
				BIRD'S NEST	1557
				MAHOGANY	1874
				WASATCH	4167
				MESAVERDE	6270

32. Additional remarks (include plugging procedure):
The first 210 ft of the surface hole was drilled with a 12 1/4 inch bit. The remainder of the surface hole was drilled with an 11 inch bit. DQX csg was run from surface to 4938 ft; LTC csg was run from 4938 ft. to 8537 ft. Attached is the chronological well history, perforation report and final survey.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #207995 Verified by the BLM Well Information System.
For KERR MCGEE OIL&GAS ONSHORE,LP, sent to the Vernal

Name *(please print)* TEENA PAULO Title STAFF REGULATORY SPECIALIST

Signature (Electronic Submission) Date 05/20/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

RECEIVED: May. 20, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 9/24/2012		End Date: 1/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/17/2012	18:00 - 21:00	3.00	MIRU	01	B	P		HOOK UP DIVERTER, SPOT IN RIG, CATWALK & PIPE RACKS /// PRIME PUMP
	21:00 - 21:30	0.50	DRLSUR	06	A	P		PICK UP 12.25" SURFACE BIT & 8" MUD MOTOR
	21:30 - 22:30	1.00	DRLSUR	21	E	P		WAIT ON VAC. TRUCK TO FINISH CLEANING NOV PRE-MIX TANK
	22:30 - 0:00	1.50	DRLSUR	02	B	P		DRILL 12.25"SURFACE HOLE F/44'-210' ROP= 166' @ 111FPH WOB= 5-15K. RPM= TOP DRIVE~55 / MOTOR ~83 /// TOTAL RPM~138 GPM= 491 @ 120 SPM SPP ON/OFF= 800/500 UP/DN/ROT = 37/33/35 NOV ON LINE MW= 8.5
10/18/2012	0:00 - 0:30	0.50	DRLSUR	06	A	P		TOOH & LAY DOWN 12.25" BIT
	0:30 - 2:00	1.50	DRLSUR	06	A	P		PICK UP 11" BIT, DIR. TOOLS, SCRIBE & TIH
	2:00 - 12:00	10.00	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE F/ 210'-1570' ROP= 1360' @ 136 FPH WOB= 18-22K. RPM= TOP DRIVE~55 / MOTOR ~83 /// TOTAL RPM~138 GPM= 491 @ 120 SPM SPP ON/OFF= 1250/950 UP/DOWN/ ROT= 66/60/61K.~DRAG= 5K. NOV ON LINE MW= 8.5 SLIDE 10' / 2% 1' NORTH & 1' WEST OF TARGET LINE LOST CIRCULATION @ 1520' /// AIR ON @ 2200 CFM NO OTHER HOLE ISSUES
	12:00 - 19:30	7.50	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE F/ 1570'- 2325' ROP= 755' @ 101 FPH WOB= 18-22K. RPM= TOP DRIVE~55 / MOTOR ~83 /// TOTAL RPM~138 GPM= 491 @ 120 SPM SPP ON/OFF= 1100/750 UP/DOWN/ ROT= 76/69/73K.~DRAG= 3K. NOV ON LINE MW= 8.5 SLIDE 52' / 2.5% 3' SOUTH & 1' EAST OF CENTER LOST CIRCULATION @ 1520' /// AIR ON @ 2200 CFM NO OTHER HOLE ISSUES
	19:30 - 21:30	2.00	DRLSUR	05	A	P		CIRCULATE & CONDITION HOLE FOR 8-5/8" SURFACE CSG
	21:30 - 0:00	2.50	DRLSUR	06	A	P		LAY DOWN DRILL STRING & DIR. TOOLS
10/19/2012	0:00 - 1:00	1.00	DRLSUR	06	A	P		LAY DOWN DOIR. TOOLS
	1:00 - 1:30	0.50	CSGSUR	12	A	P		PJSM FOR RUN CSG /// MOVE PIPE RACKS & CATWALK & MOVE CSG INTO POSITION TO PICK UP

RECEIVED: May. 20, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 9/24/2012		End Date: 1/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	1:30 - 3:30	2.00	CSGSUR	12	C	P		RUN 52 JT'S, 8-5/8", 28#, J-55, LT&C CSG /// SHOE SET @ 2291' & BAFFLE @ 2246'
	3:30 - 4:00	0.50	CSGSUR	12	B	P		CIRCULATE CSG /// RUN 200' OF 1" DOWN BACKSIDE, RIG DOWN & MOVE RIG OF WELL /// INSTALL CMT HEAD & PLUG/// PJSM FOR CEMENTING
	4:00 - 6:30	2.50	CSGSUR	12	E	P		RIG UP PUMP TRUCK /// TEST LINES TO 1500 PSI /// PUMP 130 BBL'S WATER AHEAD FOLLOWED BY 20 BBL GEL WATER FLUSH. TAIL= 300sx CLASS G CMT @ 15.8 WT & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 140 BBL'S WATER /// PLUG DOWN @ 05:19 10/19/2011 /// BUMP PLUG W/ 650 PSI /// FINAL LIFT = 350 PSI. /// CHECK FLOATS - HELD W/ .5 BBL'S BACK /// NO CIRCULATION & NO CMT TO SURFACE /// PUMP 1st TOP OUT W/ 150 sx CMT @ 15.8 WT & 1.15 YIELD - NO CMT TO SURFACE /// PUMP 3 MORE TOP OUTS WITH A TOTAL OF 375sx /// CMT TO SURFACE & STAYED /// RELEASE RIG @ 06:30 10/19/2012 TO NBU 1022-1L4CS
1/18/2013	14:00 - 14:30	0.50	MIRU	01	C	P		SKID THE RIG AND CENTER RIG OVER THE HOLE
	14:30 - 16:30	2.00	MIRU	14	A	P		NIPPLE UP THE BOP FLOW LINE,TURN BUCKLES,PUT HOLE COVERS ON OPEN WELLS.
	16:30 - 0:00	7.50	PRPSPD	15	A	P		HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE OUTSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES. TEST ANNULLAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES. TESTING CASING TO 1500 PSI FOR 30 MINUTES.
1/19/2013	0:00 - 0:30	0.50	PRPSPD	14	B	P		INSTALL THE WEAR BUSHHING
	0:30 - 1:00	0.50	PRPSPD	06	A	P		PICK UP BIT MUD MOTOR MAKE UP BIT SCRIBE MOTOR. HAD NO CROSSOVER FOR HELL TOOL. OR LIFTING SUB SHUT DOWN TO WAIT ON HOT SHOT FROM VERNAL TO BRING THEM.
	1:00 - 5:30	4.50	PRPSPD	21	D	Z		WAIT ON HOT SHOT FROM VERNAL TO BRING HELL TOOL CROSSOVER AND LIFTING SUB.
	5:30 - 9:30	4.00	PRPSPD	06	A	P		FINISH SCRIBE DIR TOOLS. PICK UP ALL DIR TOOLS PROGRAM LWD TOOL AND DO SURFACE TEST HAD SMALL ISSUES BUT GOT TEST.
	9:30 - 13:00	3.50	PRPSPD	06	A	P		TRIPPED IN THE HOLE AND TAGGED CEMENT @2194' INSTALL THE DRILLING RUBBER
	13:00 - 14:00	1.00	DRLPRC	02	F	P		DRILLING CEMENT AND FLOAT EQUIPMENT PUMPS 80 STK ROTARY 40 RPM 10-12K WOB WE HAD A FEW PROBLEMS WITH THE DRILLING FLUID FLOCKING.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 9/24/2012		End Date: 1/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:00 - 17:30	3.50	DRLPRC	02	B	P		DRILL SLIDE F/ 2336' TO 2649' (313' @ 89' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 15 K. ROTARY RPM 65, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1200/1500. DIFFERENTIAL 300. TORQUE HIGH/LOW 7000 / 4500 OFF BOTTOM TORQUE 2500 STRING WEIGHT UP/DOWN/ROT 75/65/70. DRAG 5 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.6 VIS 31. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 100 BBL. FLUID FOR HOLE VOLUME NO FLARE Footage 313' Slide-27'=6.99% Rotate-286'=93.01% Time 3.33 HRS Slide-.5HRS=15% Rotate-2.83HRS=85% SURVEY @2677' INC .53 AZM 237.6 PUTS US // 1.64' NORTH AND 4.60 EAST OF PLANED LINE.
	17:30 - 18:00	0.50	DRLPRC	07	A	P		RIG SERVICE

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRC	02	B	P		DRILL SLIDE F/ 2649' TO 3478' (829' @ 138' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 15 K. ROTARY RPM 55, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1500/1900. DIFFERENTIAL 500. TORQUE HIGH/LOW 6000 / 2000 OFF BOTTOM TORQUE 2000 STRING WEIGHT UP/DOWN/ROT 93/75/81. DRAG 12 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.6 VIS 31. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 100 BBL. FLUID FOR HOLE VOLUME NO FLARE Footage 829' Slide-16'=1.93% Rotate-813'=98.07% Time 4.5 HRS Slide-.25HRS=5.36% Rotate-4.25HRS=94.64% 1' North 1'East off of plan line

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 9/24/2012		End Date: 1/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/20/2013	0:00 - 5:30	5.50	DRLPRC	02	B	P		DRILL SLIDE F/ 3478' TO 4094' (616' @ 138' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1875/2200. DIFFERENTIAL 350. TORQUE HIGH/LOW 5800 / 3100 OFF BOTTOM TORQUE 3100 STRING WEIGHT UP/DOWN/ROT 97/76/91. DRAG 6 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.7 VIS 31. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 50 BBL. FLUID FOR HOLE VOLUME NO FLARE FootageFeet% Total616 Slide6210.82% Rotate55489.18% TimeMinHrs% Total 3304.6 Slide550.2516.67% Rotate2754.2583.33% 4006' 23' North 17' East of center target
	5:30 - 6:00	0.50	DRLPRC	07	A	P		RIG SERVICE

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 9/24/2012		End Date: 1/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 14:00	8.00	DRLPRC	02	B	P		DRILL SLIDE F/ 4094' TO 5022' (928' @ 116' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 15 K. ROTARY RPM 55, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1458/2132. DIFFERENTIAL 375. TORQUE HIGH/LOW 6000 / 3500 OFF BOTTOM TORQUE 3500 STRING WEIGHT UP/DOWN/ROT 97/79/89. DRAG 8 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.7 VIS 32. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 50 BBL. FLUID FOR HOLE VOLUME FootageFeet% Total928 Slide605.67% Rotate86894.33% TimeMinHrs% Total 4808 Slide651.08333313.54% Rotate4156.91666786.46% 4977' 9' North 2' West of center target
	14:00 - 14:30	0.50	DRLPRV	05	C	P		CIRC BOTTOMS UP NO FLAIR.
	14:30 - 19:30	5.00	DRLPRV	06	A	P		HELD S/M WITH RIG CREW AND DIR HANDS. TRIP OUT OF HOLE LAY DOWN GYRO DATA TOOLS AND LWD, PREP FLOOR TO CUT AND SLIP DRILL LINE.
	19:30 - 21:00	1.50	DRLPRV	09	A	P		HELD SAFETY MEETING CUT 58' DRILLING LINE
	21:00 - 0:00	3.00	DRLPRV	06	A	P		HELD S/M WITH RIG CREW AND DIR HANDS. PICK UP INSPECT BIT AND M.M / PICK UP MWD AND DIR TOOLS, SCRIBE M.M TRIP IN HOLE
1/21/2013	0:00 - 1:30	1.50	DRLPRV	06	A	P		HELD S/M WITH RIG CREW FINISH TRIP IN HOLE STOP TO FILL PIPE.
	1:30 - 2:00	0.50	DRLPRC	07	A	P		RIG SERVICE
	2:00 - 3:00	1.00	DRLPRC	08	B	Z		THAW ICE PLUG ON TOP DRIVE AND 4" VALVE.
	3:00 - 8:00	5.00	DRLPRV	06	A	P		HELD S/M BLOW DOWN TOP DRIVE FINISH TRIP IN HOLE. TAG AT 4828' WASH TO 5022' / 194' TO BOTTOM.

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 9/24/2012		End Date: 1/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:00 - 17:30	9.50	DRLPRC	02	B	P		DRILL SLIDE F/ 5022' TO 6093' (1071' @ 112' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 15 K. ROTARY RPM 55, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1445/1918. DIFFERENTIAL 352. TORQUE HIGH/LOW 8259 / 4437 OFF BOTTOM TORQUE 4437 STRING WEIGHT UP/DOWN/ROT 120/112/114. DRAG 6 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.6 VIS 32. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 150 BBL. FLUID FOR HOLE VOLUME Footage 1071' Slide-36'=3.36% Rotate-1035'=96.64% Time 9.5 HRS Slide-..91HRS=9.63% Rotate-8.58HRS=90.35% 17.25' North 9.81'West of target center
	17:30 - 18:00	0.50	DRLPRC	07	A	P		RIG SERVICE
	18:00 - 0:00	6.00	DRLPRC	02	B	P		DRILL SLIDE F/ 6093' TO 6623 (530 ' @ 88' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 55, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1400/1900. DIFFERENTIAL 500. TORQUE HIGH/LOW 7500 / 3500 OFF BOTTOM TORQUE 4437 STRING WEIGHT UP/DOWN/ROT 130/115/120. DRAG 10 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.6 VIS 32. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 100 BBL. FLUID FOR HOLE VOLUME Footage 530' Slide-0'=0% Rotate-530'=100% Time 6.0 HRS Slide-0.0HRS=0% Rotate-6.0HRS=100% 20' North 8.5' West of target center

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 9/24/2012		End Date: 1/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/22/2013	0:00 - 5:30	5.50	DRLPRV	02	B	P		DRILL SLIDE F/ 6623' TO 7107' (484 ' @ 88' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 55, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1400/1900. DIFFERENTIAL 225. TORQUE HIGH/LOW 10000 / 4855 OFF BOTTOM TORQUE 4437 STRING WEIGHT UP/DOWN/ROT 135/119/125. DRAG 10 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.8 VIS 37. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 0 BBL. FLUID FOR HOLE VOLUME FootageFeet% Total484 Slide122.48% Rotate47297.52% TimeMinHrs% Total 3305.5 Slide300.59.09% Rotate300590.91% 7013' 15' North 7' West OF CENTER.
	5:30 - 6:00	0.50	DRLPRV	07	A	P		RIG SERVICE

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 9/24/2012		End Date: 1/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 17:30	11.50	DRLPRV	02	B	P		DRILL SLIDE F/ 7107' TO 8039' (932'@81' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 55, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1978/1842. DIFFERENTIAL 271. TORQUE HIGH/LOW 7775 / 4892 OFF BOTTOM TORQUE 4437 STRING WEIGHT UP/DOWN/ROT 137/130/138. DRAG 1 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.9 VIS 37. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 100 BBL. FLUID FOR HOLE VOLUME Footage 932' Slide-46'=4.49% Rotate-886'=95.06% Time 12.0 HRS Slide-1.58HRS=13.19% Rotate-10.42HRS=89.17% 10.86' North 0.27' East of target center
	17:30 - 18:00	0.50	DRLPRV	07	A	P		RIG SERVICE
	18:00 - 22:30	4.50	DRLPRV	02	B	P		DRILL SLIDE F/ 8039' TO 8064' (25 '@5.5' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 55, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 2765/2908 DIFFERENTIAL 271. TORQUE HIGH/LOW 5468 / 4892 OFF BOTTOM TORQUE 4437 STRING WEIGHT UP/DOWN/ROT 138/130/133. DRAG 5 K. NOV OFF LINE WT 10.9 VIS 40 PUMP LCM SWEEPS TO HELP WITH LOSSES. Footage 25' Slide-0'=0% Rotate-25'=100% Time 4.5 HRS Slide-0HRS=100% Rotate-4.5HRS=100% 9.62' North 1.75' East of target center
	22:30 - 0:00	1.50	DRLPRV	06	A	P		HELD S/M MIX DRY JOB TRIP OUT OF HOLE FOR BIT # 1

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 9/24/2012		End Date: 1/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/23/2013	0:00 - 9:30	9.50	DRLPRV	06	A	P		TRIP OUT OF HOLE FOR BIT # 1 HIT TIGHT SPOTS @6540,6380,6280 BREAK BIT. MAKE UP NEW BIT.
	9:30 - 10:00	0.50	DRLPRV	07	A	P		RIG SERVICE
	10:00 - 20:00	10.00	DRLPRV	06	A	P		HELD S/M TRIP IN HOLE HIT TIGHT SPOTS @6388',6480,TO 6510' BREAK CIRC TRIP TO 8000'.WASH 64' TO BOTTOM.
	20:00 - 23:30	3.50	DRLPRV	02	B	P		DRILL SLIDE F/ 8064' TO 8174' (110 '@31' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 55, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 2778/2971 DIFFERENTIAL 234. TORQUE HIGH/LOW 5693 / 2973 OFF BOTTOM TORQUE 2975 STRING WEIGHT UP/DOWN/ROT 142/131/134. DRAG 8 K. NOV OFF LINE WT 12.1 VIS 39 PUMP LCM SWEEPS TO HELP WITH LOSSES. Footage 110' Slide-0'=0% Rotate-110'=100% Time 1.58 HRS Slide-0HRS=100% Rotate-1.58HRS=100% 7.21' North 3.18' East of target center
	23:30 - 0:00	0.50	DRLPRV	07	A	P		RIG SERVICE ,CHANGE TOP DRIVE BLOWER MOTOR

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 9/24/2012		End Date: 1/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/24/2013	0:00 - 6:30	6.50	DRLPRV	02	B	P		DRILL SLIDE F/ 8174' TO 8560 (386 '@59.2' / HR) WEIGHT ON BIT 15-24 K. AVERAGE WEIGHT ON BIT 24 K. ROTARY RPM 55, MUD MOTOR RPM 108. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 2778/2971 DIFFERENTIAL 234. TORQUE HIGH/LOW 5693 / 2973 OFF BOTTOM TORQUE 2975 STRING WEIGHT UP/DOWN/ROT 142/131/134. DRAG 8 K. NOV OFF LINE WT 12.1 VIS 39 PUMP LCM SWEEPS TO HELP WITH LOSSES. Footage Slide-0'=0% Rotate-386'=100% Time Slide-0Hrs=0% Rotate-6.5Hrs=100% 8' South, 14' East of target center
	6:30 - 8:30	2.00	DRLPRV	05	C	P		CIRCULATE AND CONDITION FOR THE WIPER TRIP
	8:30 - 15:00	6.50	DRLPRV	06	E	P		TRIPPED OUT OF THE HOLE TO THE CASING SHOE. TIGHT @ 7600', 6480' TO 6403'.
	15:00 - 18:30	3.50	DRLPRV	06	E	P		FILLED THE PIPE AND TRIPPED BACK IN THE HOLE TO 5587'
	18:30 - 23:00	4.50	DRLPRV	08	A	Z		TROUBLE SHOOT ACTUATOR FOR DRAW TOOL BRAKES / REPLACE ACTUATOR STILL NOT WORKING. FOUND IT WAS A 5 AMP FUSE.
	23:00 - 0:00	1.00	DRLPRV	06	E	P		HELD SAFETY MEETING TRIP IN HOLE F/ 5587' TO 6500' @00:00
1/25/2013	0:00 - 2:00	2.00	DRLPRV	06	E	P		HELD SAFETY MEETING FINISH TRIP IN HOLE REAM THROUGH TIGHT SPOT @6312' FINISH TRIP IN HOLE TO 8560'
	2:00 - 4:00	2.00	DRLPRV	05	C	P		CIRCULATE AND CONDITION PRIOR TO TRIPPING OUT FOR CASING. 15' FLARE ON BOTTOMS UP.
	4:00 - 11:00	7.00	DRLPRV	06	E	P		TRIPPED OUT OF THE HOLE LAYING DOWN FOR LOGS,LAY DOWN DIR TOOLS
	11:00 - 16:00	5.00	DRLPRV	11	D	P		RUN WIRELINE LOGS TO 8016' / LOG OUT OF HOLE. RIG DOWN SAME / PULLED THE WEAR BUSHING
	16:00 - 0:00	8.00	CSGPRO	12	C	P		HELD A SAFETY MEETING WITH KIMZEY CASING CREW RAN 194 TOTAL JTS. OF CASING (81 JOINTS OF 4.5"/11.6# / I-80/ LTC + 1 MARKER) + (111 JTS. OF 4.5"/ 11.6#/ I-80/ DQX) + (1-DQX CROSS OVER). LANDED @ 8536.93', FLOAT COLLAR @ 8489.81', MESA VERDE MARKER @ 6438.83', CROSS OVER JT. @ 4938.27'

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: PROPETRO 12/12, XTC 12/12
Event: DRILLING	Start Date: 9/24/2012		End Date: 1/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/26/2013	0:00 - 2:00	2.00	CSGPRO	12	C	P		FINISH RUNNING CASING WITH KIMZEY CASING CREW RAN 194 TOTAL JTS. OF CASING (81 JOINTS OF 4.5"/11.6# / I-80/ LTC + 1 MARKER) + (111 JTS. OF 4.5"/ 11.6#/ I-80/ DQX) + (1-DQX CROSS OVER). LANDED @ 8536.93', FLOAT COLLAR @ 8489.81', MESA VERDE MARKER @ 6438.83', CROSS OVER JT. @ 4938.27'
	2:00 - 3:00	1.00	DRLPRO	05	D	P		CIRCULATE CASING WITH RIG PUMP
	3:00 - 6:30	3.50	DRLPRO	12	E	P		SAFETY MEETING WITH BJ PRESSURE TEST TO 5200 PSI. PUMP 25 BBLS OF FRESH WATER. PUMP 159.59 BBLS (505 SX) OF PREMIUM LITE II LEAD CEMENT,13.0 PPG 1.77 YLD, .05 LB/SACK OF STATIC FREE + .4%BWOC R-3 +.25 LBS/SACK CELLO FLAKE + 5 LBS/SACK KOL-SEAL + .4% BWOC FL-52 + .2%BWOC SODIUM METASILICATE + 6% BWOC BENTONITE + 100.1%FRESH WATER . FOLLOWED BY 231.43 BBLS (985 SX) OF 14.3# 1.32 YD 5.91 GAL/SK. POZ 50/50 TAIL CEMENT + 2% BWOC BENTONITE + .005 LB/SACK STATIC FREE + 10% BWOW SODIUM CHLORIDE + .55%BWOC R-3 + .002GPS FP-6L + .75 BWOC SODIUM METASILICATE 58.8% FRESH WATER . SHUT DOWN AND FLUSH LINES. DROP PLUG AND DISPLACE W/ 132 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. 25 BBLS OF WATER AND 10 BBL CELLO FLAKE / WATER TO SURFACE. LIFT PSI OF 2311 / BUMP PLUG 2673 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR LEAD 975', EST TOC FOR TAIL 3676'. RIG DOWN CEMENTERS.GOOD RETURNS THROUGHOUT.
	6:30 - 7:30	1.00	CSGPRO	14	A	P		SET THE PACK OFF
	7:30 - 8:30	1.00	RDMO	01	E	P		NIPPLE DOWN THE BOP AND PREP TO SKID RIG (CLEAN SHAKER TANKS) RIG RELEASED AT 08:30 1/26/2013

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-1K4BS BLUE	**Wellbore No.**	OH
Well Name	NBU 1022-1K4BS	**Wellbore Name**	NBU 1022-1K4BS
Report No.	1	**Report Date**	4/8/2013
Project	UTAH-UINTAH	**Site**	NBU 1022-01K PAD
Rig Name/No.	MILES 3/3	**Event**	COMPLETION
Start Date	3/5/2013	**End Date**	4/26/2013
Spud Date	10/17/2012	**Active Datum**	RKB @5,102.00usft (above Mean Sea Level)
UWI	NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

1.3 General

Contractor		**Job Method**		**Supervisor**	
Perforated Assembly		**Conveyed Method**			

1.4 Initial Conditions

Fluid Type		**Fluid Density**	
Surface Press		**Estimate Res Press**	
TVD Fluid Top		**Fluid Head**	
Hydrostatic Press		**Press Difference**	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	5,313.0 (usft)-8,375.0 (usft	**Start Date/Time**	4/8/2013 12:00AM
No. of Intervals	44	**End Date/Time**	4/8/2013 12:00AM
Total Shots	152	**Net Perforation Interval**	49.00 (usft)
Avg Shot Density	3.10 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/8/2013 12:00AM	WASATCH/			5,313.0	5,314.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/8/2013 12:00AM	WASATCH/			5,365.0	5,367.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/8/2013 12:00AM	WASATCH/			5,531.0	5,533.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			6,980.0	6,981.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,042.0	7,043.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,047.0	7,048.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,062.0	7,063.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,130.0	7,131.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,165.0	7,166.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,187.0	7,188.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,237.0	7,238.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,250.0	7,251.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,342.0	7,343.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,362.0	7,363.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,383.0	7,384.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,391.0	7,392.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,424.0	7,425.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,449.0	7,450.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,503.0	7,504.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,523.0	7,524.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,603.0	7,604.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,622.0	7,623.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

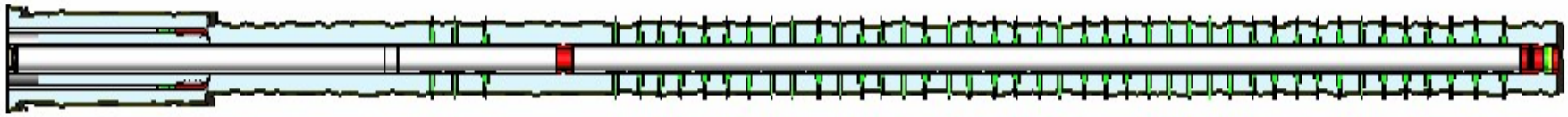
Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/8/2013 12:00AM	MESAVERDE/			7,681.0	7,682.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,688.0	7,690.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,745.0	7,746.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,780.0	7,781.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,792.0	7,793.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,809.0	7,810.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,820.0	7,821.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,834.0	7,835.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,849.0	7,850.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,858.0	7,859.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,900.0	7,901.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,917.0	7,918.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,960.0	7,961.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			7,973.0	7,974.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			8,002.0	8,003.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			8,030.0	8,031.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			8,060.0	8,061.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			8,100.0	8,101.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			8,136.0	8,137.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			8,183.0	8,184.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/8/2013 12:00AM	MESAVERDE/			8,258.0	8,260.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/8/2013 12:00AM	MESAVERDE/			8,373.0	8,375.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 3/5/2013		End Date: 4/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/5/2013	-							
3/26/2013	8:30 - 9:30	1.00	SUBSPR	33	C	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 450 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 502 PSI HELD FOR 5 MIN LOST -213 PSI,BLED PSI OFF, REINSTALLED POP OFF SWIFN
4/8/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM, STAYING AWAY FROM HIGH PRESSURE LINES
4/9/2013	6:30 - 6:45	0.25	FRAC	48		P		HSM, BAD WEATHER CONDITIONS
	6:45 - 17:30	10.75	FRAC	36	B	P		REFER TO STIMULATION PJR FOR FLUID, SAND AND CHEMICAL VOLUMES, ALL STAGES WERE PERFORATED ACCORDING TO PERF RECORD IN OPEN WELLS, ALL STAGES WERE STIMULATED TO VENDOR POST JOB REPORT. ALL PLUGS ARE HALIBURTON 8K CBPS FRAC STG #1] WHP=1,792#, BRK DN PERFS=5,284#, @=5.1 BPM, INTIAL ISIP=2,475#, FG=.74, FINAL ISIP=2,620#, FG=.76, SET PLUG & PERFORATE STG #2 FRAC STG #2] WHP=2,245#, BRK DN PERFS=3,594#, @=4.7 BPM, INTIAL ISIP=2,574#, FG=.76, FINAL ISIP=2,697#, FG=.78, SET PLUG & PERFORATE STG #3 FRAC STG #3] WHP=2,180#, BRK DN PERFS=3,505#, @=4.9 BPM, INTIAL ISIP=2,410#, FG=.75, FINAL ISIP=2,714#, FG=.79, SET PLUG & PERFORATE STG #4 SWIFN.
4/10/2013	6:45 - 7:00	0.25	FRAC	48		P		HSM, OPENING & CLOSING VALVES

RECEIVED: May. 20, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 3/5/2013		End Date: 4/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 16:30	9.50	FRAC	36	B	P		FRAC STG #4] WHP=1,9,88#, BRK DN PERFS=3,772#, @=4.8 BPM, INTIAL ISIP=2,319#, FG=.74, FINAL ISIP=2,184#, FG=.73, SET PLUG PERFORATE STG #5 FRAC STG #5] WHP=1,175#, BRK DN PERFS=2,941#, @=4.7 BPM, INTIAL ISIP=2,191#, FG=.74, FINAL ISIP=2,329#, FG=.76, SET PLUG AND PERFORATE STG #6 FRAC STG #6] WHP=1,230#, BRK DN PERFS=3,024#, @=4.7 BPM, INTIAL ISIP=1,880#, FG=.70, FINAL ISIP=2,539#, FG=.80, SET PLUG AND PERFORATE STG #7 SWIFN.
4/11/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM, RIGGING DOWN
	7:15 - 11:30	4.25	FRAC	36	B	P		FRAC STG #7] WHP=275#, BRK DN PERFS=1,808#, @=5 BPM, INTIAL ISIP=1,308#, FG=.68, FINAL ISIP=1,553#, FG=.80, TOTAL BBLS=7,218 TOTAL SAND=154,567#
4/26/2013	7:00 - 7:15	0.25	DRLOUT	48		P		JSA-SASFETY MEETING
	7:15 - 8:15	1.00	DRLOUT	30	A	P		MIRU, N/D WH, N/U BOPS,

RECEIVED: May. 20, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 1022-1K4BS BLUE		Spud Date: 10/17/2012	
Project: UTAH-UINTAH	Site: NBU 1022-01K PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 3/5/2013		End Date: 4/26/2013
Active Datum: RKB @5,102.00usft (above Mean Sea Level)	UWI: NE/SW/0/10/S/22/E/1/0/0/26/PM/S/1957/W/0/2162/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:15 - 17:00	8.75	DRLOUT	44	C	P		P/U BIT AND POBS RIH W/ 2 3/8" TBG, TAG SAND @ 5245', R/U SWIVEL, ESTB CIRC, C/O 18' SAND TO 5263', (CBP #1) 5263' , DRILL OUT HALLIBURTON 8K CBP IN 5 MIN, 100# DIFF, RIH TAG SAND @ 5533 ', C/O 30 ' SAND, FCP = 25 #, (CBP #2) 5563' , DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 500 # DIFF, RIH TAG SAND @ 7188 ', C/O 30 ' SAND, FCP = 200 #, (CBP #3) 7218" , DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 200 # DIFF, RIH TAG SAND @ 7450 ', C/O 30 ' SAND, FCP = 300 #, (CBP #4) 7480' , DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 400 # DIFF, RIH TAG SAND @ 7683 ', C/O 35 ' SAND, FCP = 400 #, (CBP #5) 7718' , DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 100 # DIFF, RIH TAG SAND @ 7859 ', C/O 30 ' SAND, FCP = 450 #, (CBP #6) 7889' , DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 200 # DIFF, RIH TAG SAND @ 8100 ', C/O 26 ' SAND, FCP = 600 #, (CBP #7) 8126 , DRILL OUT HALLIBURTON 8K CBP IN 10 MIN, 200 # DIFF, RIH TAG SAND @ 8470 ', C/O 20 ' TO PBTD 8490', FCP = 700 #, CIRC WELL CLEAN, P/O LAY DN 20 JTS ON TRAILER, LAND TBG W/ 248 JTS 2 3/8" TBG, EOT @ 7876', N/D BOPS, DROP BALL DN TBG, N/U WH, PRESSURE TEST FLOW LINE TO 2000# OK, PUMP BIT OFF @ #, WAIT 30 MIN FOR POBS TO FALL, TURNED OVER FBC, KB = 15.00' HANGER = .83' 98 JTS 2 3/8" L-80 TBG = 3112.06' 1- 6' 2 3/8" L-80 PUP JT = 6.13' 150 JTS 2 3/8" J-55 TBG = 4739.79' XN-NIPPLE 1.875" POBS = 2.20' EOT 7876.01' 165 JTS 2 3/8" L-80 TBG DELV, 150 JTS 2 3/8" J-55 TBG DELV, 67 JTS 2 3/8" L-80 TBG RETURNED
	17:00 - 17:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1800 HR ON 4/26/2013. 1800 MCFD, 1920 BWPD, FCP 2470#, FTP 2250#, 20/64" CK.

API well Number: 43047523730000

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 1022-1K
Well: NBU 1022-1K4BS
Wellbore: Wellbore #1
Design: WP (01)
Latitude: 39.976103
Longitude: -109.389278
GL: 5087.00
KB: 15'RKB+5087'GL @ 5102.00ft (X12)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1123.00	1123.02	GREEN RIVER
1353.00	1353.02	BIRDS NEST
1843.00	1843.04	MAHOGANY MARKER
4149.00	4149.80	WASATCH
4749.00	4750.25	INTERCEPT
6459.00	6460.28	MESAVERDE
8542.00	8543.31	SEGO

WELL DETAILS: NBU 1022-1K4BS

Ground Level: 5087.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	14521408.48	2091680.44	39.976103	-109.389278	

CASING DETAILS

TVD	MD	Name	Size
2290.95	2291.00	8 5/8"	8-5/8

T M

Azimuths to True North
Magnetic North: 10.83°

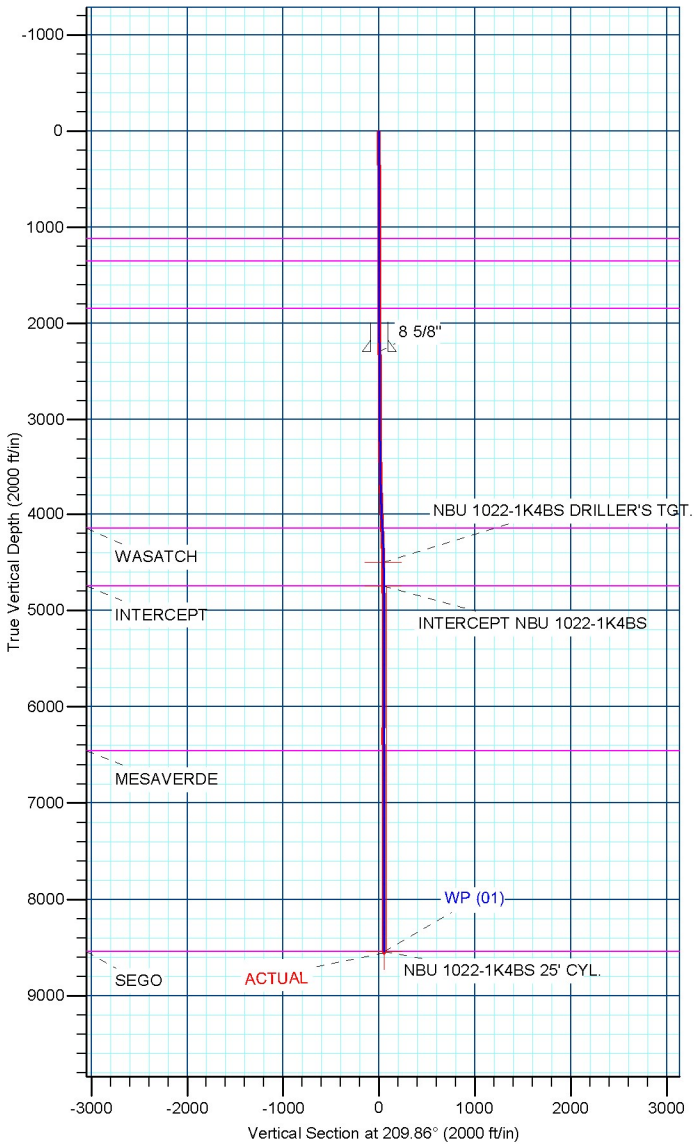
Magnetic Field
Strength: 52179.9snT
Dip Angle: 65.83°
Date: 12/19/2012
Model: IGRF2010

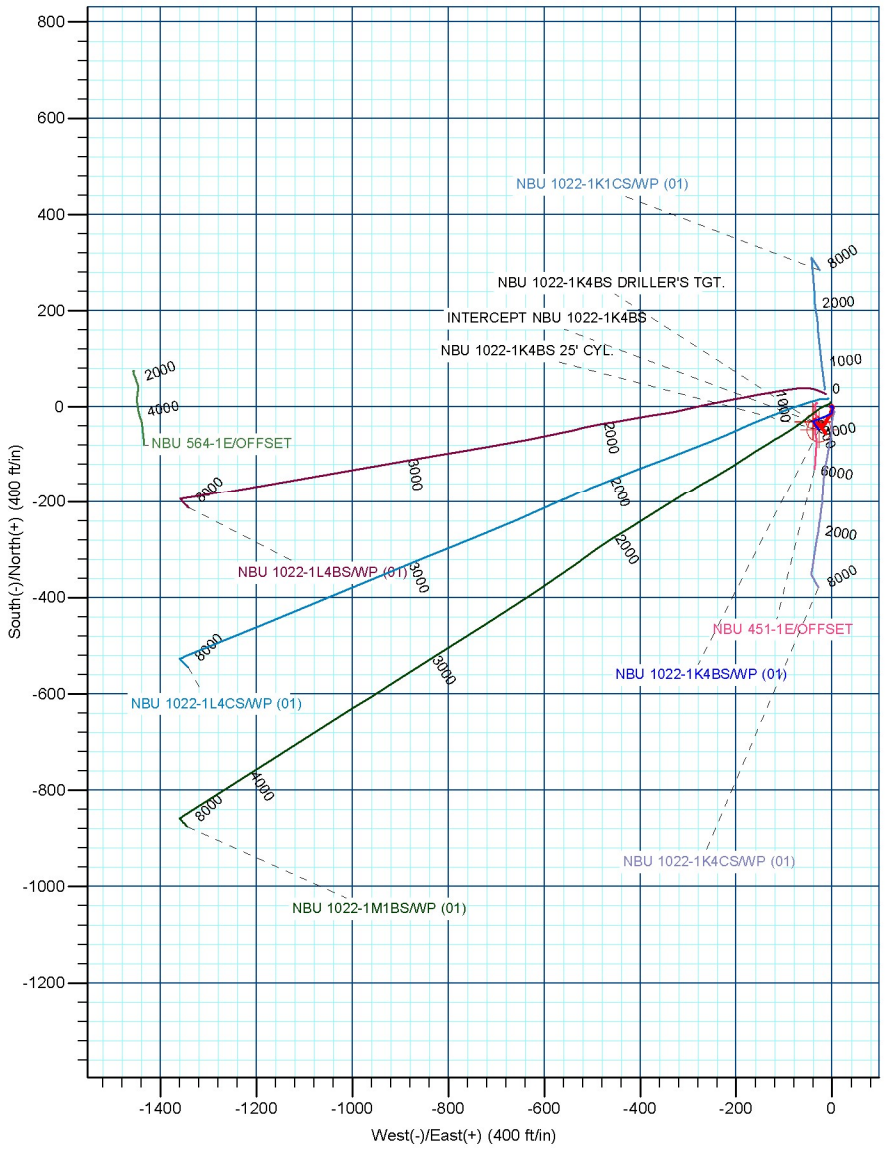
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
NBU 1022-1K4BS DRILLER'S TGT.	4500.00	-30.00	-40.00	14521387.76	2091640.99	39.976021	-109.389421	Circle (Radius: 15.00)
INTERCEPT NBU 1022-1K4BS	4749.00	-30.86	-39.37	14521386.92	2091641.64	39.976018	-109.389418	Point
NBU 1022-1K4BS 25' CYL.	8542.00	-47.35	-27.18	14521370.65	2091654.12	39.975973	-109.389375	Circle (Radius: 25.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
2271.00	0.44	194.72	2270.95	-2.34	1.32	0.00	0.00	1.37
3571.00	0.44	194.72	3570.91	-12.00	-1.22	0.00	0.00	11.01
3901.25	3.56	246.43	3900.92	-17.32	-10.94	1.00	57.70	20.47
4323.40	3.56	246.43	4322.26	-27.79	-34.94	0.00	0.00	41.50
4501.25	0.00	0.00	4500.00	-30.00	-40.00	2.00	180.00	45.93
4604.49	0.31	143.54	4603.24	-30.22	-39.83	0.30	143.54	46.04
8543.31	0.31	143.54	8542.00	-47.35	-27.18	0.00	0.00	54.60





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API Well Number: 43047523730000

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_NBU 1022-1K
NBU 1022-1K4BS

Wellbore #1

Design: ACTUAL

Standard Survey Report

25 February, 2013

RECEIVED: May. 20, 2013

Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-1K4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	15'RKB+5087'GL @ 5102.00ft (X12)
Site:	UINTAH_NBU 1022-1K	**MD Reference:**	15'RKB+5087'GL @ 5102.00ft (X12)
Well:	NBU 1022-1K4BS	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	ACTUAL	**Database:**	edmp

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site UINTAH_NBU 1022-1K

Site Position:		**Northing:**	14,521,409.46 usft	**Latitude:**	39.976078
From:	Lat/Long	**Easting:**	2,091,684.81 usft	**Longitude:**	-109.389263
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.04 °

Well NBU 1022-1K4BS

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,521,418.49 usft	**Latitude:**	39.976103
	+E/-W	0.00 ft	**Easting:**	2,091,680.44 usft	**Longitude:**	-109.389278
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,087.00 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/19/2012	10.83	65.83	52,180

Design ACTUAL

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	11.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	194.15

Survey Program **Date** 2/25/2013

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
186.00	2,271.00	Survey #1 (Wellbore #1)	MWD	MWD - STANDARD
2,323.00	8,560.00	Survey #2 (Wellbore #1)	MWD	MWD - STANDARD

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00
186.00	0.70	285.60	186.00	0.29	-1.03	-0.03	0.40	0.40	0.00
271.00	0.35	285.51	270.99	0.50	-1.78	-0.05	0.41	-0.41	-0.11
353.00	0.09	304.94	352.99	0.60	-2.07	-0.08	0.33	-0.32	23.70
443.00	0.18	309.33	442.99	0.73	-2.24	-0.16	0.10	0.10	4.88
533.00	0.18	308.37	532.99	0.91	-2.46	-0.28	0.00	0.00	-1.07
623.00	0.26	306.78	622.99	1.12	-2.74	-0.42	0.09	0.09	-1.77
713.00	0.18	348.53	712.99	1.38	-2.93	-0.62	0.19	-0.09	46.39
803.00	0.35	2.42	802.99	1.79	-2.94	-1.02	0.20	0.19	15.43
893.00	0.26	1.54	892.99	2.27	-2.93	-1.49	0.10	-0.10	-0.98

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Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-1K4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	15'RKB+5087'GL @ 5102.00ft (X12)
Site:	UINTAH_NBU 1022-1K	**MD Reference:**	15'RKB+5087'GL @ 5102.00ft (X12)
Well:	NBU 1022-1K4BS	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	ACTUAL	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
983.00	0.33	66.24	982.99	2.58	-2.68	-1.84	0.36	0.08	71.89
1,073.00	0.35	89.17	1,072.98	2.69	-2.17	-2.08	0.15	0.02	25.48
1,163.00	0.35	162.03	1,162.98	2.43	-1.81	-1.91	0.46	0.00	80.96
1,253.00	0.35	161.68	1,252.98	1.91	-1.64	-1.45	0.00	0.00	-0.39
1,343.00	0.18	195.25	1,342.98	1.51	-1.59	-1.08	0.25	-0.19	37.30
1,433.00	0.26	96.46	1,432.98	1.35	-1.43	-0.96	0.38	0.09	-109.77
1,523.00	0.53	71.94	1,522.98	1.46	-0.83	-1.21	0.35	0.30	-27.24
1,613.00	0.53	69.13	1,612.97	1.73	-0.04	-1.67	0.03	0.00	-3.12
1,703.00	0.62	120.28	1,702.97	1.64	0.77	-1.77	0.56	0.10	56.83
1,793.00	0.70	161.85	1,792.96	0.87	1.36	-1.17	0.53	0.09	46.19
1,883.00	0.53	134.61	1,882.96	0.05	1.83	-0.50	0.37	-0.19	-30.27
1,973.00	0.62	170.38	1,972.96	-0.72	2.20	0.16	0.40	0.10	39.74
2,063.00	0.26	225.66	2,062.95	-1.34	2.14	0.78	0.58	-0.40	61.42
2,153.00	0.35	227.59	2,152.95	-1.67	1.79	1.18	0.10	0.10	2.14
2,243.00	0.44	212.56	2,242.95	-2.15	1.40	1.74	0.15	0.10	-16.70
2,271.00	0.44	194.72	2,270.95	-2.34	1.32	1.95	0.49	0.00	-63.71
TIE ON									
2,323.00	0.53	216.83	2,322.95	-2.73	1.12	2.37	0.40	0.17	42.52
FIRST MWD SURVEY									
2,411.00	1.63	198.62	2,410.93	-4.24	0.48	3.99	1.29	1.25	-20.69
2,500.00	1.76	189.29	2,499.89	-6.79	-0.15	6.62	0.34	0.15	-10.48
2,589.00	1.19	235.31	2,588.86	-8.66	-1.13	8.67	1.42	-0.64	51.71
2,677.00	0.53	237.60	2,676.85	-9.40	-2.22	9.66	0.75	-0.75	2.60
2,765.00	0.97	228.45	2,764.85	-10.11	-3.12	10.57	0.52	0.50	-10.40
2,854.00	0.84	75.68	2,853.84	-10.45	-3.06	10.88	1.98	-0.15	-171.65
2,942.00	0.53	17.86	2,941.84	-9.90	-2.31	10.17	0.81	-0.35	-65.70
3,031.00	0.75	36.17	3,030.83	-9.04	-1.84	9.22	0.33	0.25	20.57
3,120.00	0.40	58.96	3,119.83	-8.41	-1.23	8.45	0.46	-0.39	25.61
3,209.00	0.26	159.37	3,208.83	-8.44	-0.89	8.40	0.58	-0.16	112.82
3,299.00	0.66	180.66	3,298.82	-9.15	-0.82	9.07	0.48	0.44	23.66
3,388.00	1.32	190.61	3,387.81	-10.67	-1.02	10.59	0.76	0.74	11.18
3,476.00	1.80	195.89	3,475.78	-12.99	-1.58	12.99	0.57	0.55	6.00
3,565.00	1.01	227.22	3,564.75	-14.87	-2.54	15.04	1.21	-0.89	35.20
3,655.00	0.26	239.45	3,654.74	-15.51	-3.30	15.85	0.84	-0.83	13.59
3,743.00	1.32	227.22	3,742.73	-16.30	-4.21	16.84	1.21	1.20	-13.90
3,832.00	1.41	211.02	3,831.71	-17.94	-5.53	18.75	0.44	0.10	-18.20
3,919.00	2.86	220.97	3,918.65	-20.49	-7.51	21.71	1.71	1.67	11.44
4,006.00	2.99	210.58	4,005.53	-24.09	-10.08	25.82	0.63	0.15	-11.94
4,094.00	2.24	202.40	4,093.44	-27.65	-11.91	29.72	0.95	-0.85	-9.30
4,184.00	2.16	203.98	4,183.38	-30.83	-13.27	33.14	0.11	-0.09	1.76
4,272.00	2.02	201.70	4,271.32	-33.78	-14.51	36.31	0.19	-0.16	-2.59
4,359.00	2.55	237.16	4,358.25	-36.26	-16.71	39.24	1.70	0.61	40.76
4,448.00	1.32	259.25	4,447.20	-37.52	-19.38	41.12	1.59	-1.38	24.82

Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-1K4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	15'RKB+5087'GL @ 5102.00ft (X12)
Site:	UINTAH_NBU 1022-1K	**MD Reference:**	15'RKB+5087'GL @ 5102.00ft (X12)
Well:	NBU 1022-1K4BS	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	ACTUAL	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,535.00	0.97	259.78	4,534.18	-37.84	-21.09	41.85	0.40	-0.40	0.61
4,622.00	1.01	283.98	4,621.17	-37.79	-22.56	42.15	0.48	0.05	27.82
4,710.00	1.10	255.82	4,709.16	-37.81	-24.13	42.56	0.59	0.10	-32.00
4,799.00	1.19	252.56	4,798.14	-38.29	-25.84	43.45	0.12	0.10	-3.66
4,888.00	1.06	264.44	4,887.12	-38.65	-27.54	44.21	0.30	-0.15	13.35
4,977.00	1.32	255.29	4,976.10	-38.99	-29.35	44.98	0.36	0.29	-10.28
5,078.00	0.90	241.97	5,077.08	-39.66	-31.17	46.08	0.49	-0.42	-13.19
5,168.00	0.96	241.70	5,167.07	-40.35	-32.46	47.06	0.07	0.07	-0.30
5,255.00	1.26	338.67	5,254.06	-39.80	-33.45	46.77	1.92	0.34	111.46
5,342.00	0.75	316.48	5,341.05	-38.50	-34.19	45.69	0.73	-0.59	-25.51
5,430.00	0.94	307.98	5,429.04	-37.64	-35.16	45.09	0.26	0.22	-9.66
5,517.00	0.38	299.23	5,516.03	-37.06	-35.97	44.73	0.65	-0.64	-10.06
5,605.00	1.06	352.23	5,604.03	-36.11	-36.34	43.89	1.01	0.77	60.23
5,692.00	1.06	346.48	5,691.01	-34.53	-36.63	42.43	0.12	0.00	-6.61
5,782.00	0.75	340.85	5,781.00	-33.16	-37.02	41.21	0.36	-0.34	-6.26
5,869.00	0.69	358.23	5,867.99	-32.10	-37.22	40.23	0.26	-0.07	19.98
5,955.00	0.69	7.10	5,953.99	-31.07	-37.18	39.21	0.12	0.00	10.31
6,043.00	0.63	14.48	6,041.98	-30.07	-36.99	38.20	0.12	-0.07	8.39
6,131.00	0.63	16.85	6,129.97	-29.14	-36.73	37.24	0.03	0.00	2.69
6,218.00	0.63	4.35	6,216.97	-28.21	-36.55	36.29	0.16	0.00	-14.37
6,306.00	0.44	22.48	6,304.97	-27.41	-36.39	35.48	0.29	-0.22	20.60
6,396.00	0.31	24.98	6,394.96	-26.87	-36.15	34.90	0.15	-0.14	2.78
6,485.00	0.25	43.85	6,483.96	-26.52	-35.92	34.49	0.12	-0.07	21.20
6,573.00	0.36	172.96	6,571.96	-26.65	-35.75	34.58	0.63	0.13	146.72
6,662.00	0.50	184.48	6,660.96	-27.32	-35.75	35.23	0.18	0.16	12.94
6,751.00	0.69	165.73	6,749.95	-28.22	-35.64	36.08	0.30	0.21	-21.07
6,839.00	0.88	166.48	6,837.95	-29.39	-35.36	37.14	0.22	0.22	0.85
6,925.00	1.00	172.48	6,923.93	-30.78	-35.10	38.43	0.18	0.14	6.98
7,013.00	1.38	165.35	7,011.92	-32.57	-34.73	40.07	0.46	0.43	-8.10
7,101.00	1.38	169.22	7,099.89	-34.63	-34.27	41.96	0.11	0.00	4.40
7,190.00	0.44	234.22	7,188.88	-35.88	-34.35	43.19	1.41	-1.06	73.03
7,279.00	0.31	223.60	7,277.88	-36.26	-34.79	43.66	0.17	-0.15	-11.93
7,367.00	0.94	15.73	7,365.87	-35.74	-34.76	43.15	1.39	0.72	172.88
7,455.00	0.82	48.45	7,453.86	-34.62	-34.09	41.91	0.58	-0.14	37.18
7,544.00	1.00	56.73	7,542.85	-33.78	-32.96	40.81	0.25	0.20	9.30
7,633.00	0.88	103.60	7,631.84	-33.51	-31.65	40.23	0.85	-0.13	52.66
7,723.00	0.94	109.10	7,721.83	-33.91	-30.28	40.29	0.12	0.07	6.11
7,812.00	1.56	130.25	7,810.81	-34.94	-28.67	40.88	0.86	0.70	23.76
7,900.00	1.50	132.98	7,898.78	-36.49	-26.91	41.97	0.11	-0.07	3.10
7,989.00	1.31	142.35	7,987.75	-38.09	-25.44	43.16	0.33	-0.21	10.53
8,077.00	1.94	146.73	8,075.72	-40.14	-24.00	44.79	0.73	0.72	4.98
8,164.00	1.88	145.98	8,162.67	-42.55	-22.40	46.73	0.07	-0.07	-0.86
8,253.00	2.06	141.48	8,251.62	-45.01	-20.59	48.68	0.27	0.20	-5.06
8,342.00	2.06	144.35	8,340.56	-47.56	-18.66	50.68	0.12	0.00	3.22

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Anadarko Petroleum Corp

Survey Report

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 1022-1K4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	15'RKB+5087'GL @ 5102.00ft (X12)
Site:	UINTAH_NBU 1022-1K	**MD Reference:**	15'RKB+5087'GL @ 5102.00ft (X12)
Well:	NBU 1022-1K4BS	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	ACTUAL	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,431.00	2.31	141.23	8,429.49	-50.26	-16.60	52.79	0.31	0.28	-3.51
8,510.00	2.54	154.30	8,508.42	-53.08	-14.84	55.10	0.76	0.29	16.54
LAST MWD SURVEY									
8,560.00	2.54	154.30	8,558.37	-55.08	-13.88	56.80	0.00	0.00	0.00
PROJECTION TO TD									

Checked By: _____ Approved By: _____ Date: _____

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